

**Recommendation Number: E.681**

Id Number: E681-01

Organization: **AT&T Corp.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **14.11.2001**

Remarks:

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**Recommendation Number: G.4kbps**

Id Number: G4kbps-01

Organization: **Nortel Networks Limited**  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 774 847**

Patent Country: **United States**

Date Patent Statement Received: **22.09.1998**

Remarks:  
-----

**Recommendation Number: G.4kbps**

Id Number: G4kbps-02

Organization: **Nortel Networks Limited**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 642 464**

Patent Country: **United States**

Date Patent Statement Received: **22.09.1998**

Remarks:

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**Recommendation Number: G.651**

Id Number: G651-01

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

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**Recommendation Number: G.652**

Id Number: G652-01

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:  
-----

**Recommendation Number: G.653**

Id Number: G653-01

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

-----

**Recommendation Number: G.654**

Id Number: G654-01

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

-----

**Recommendation Number: G.655**

Id Number: G655-01

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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E-mail: gil.ingel@ecitele.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:  
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**Recommendation Number: G.655**

Id Number: G655-02

Organization: **Lucent Technologies**  
Main Contact: **Intellectual Property Department**  
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Tel. No.: +1 908 903 8037  
Fax. No.: +1 908 903 6329  
E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Optical fiber for wavelength division multiplexing**

Patent Number: **5 327 516**

Patent Country: **United States**

Date Patent Statement Received: **27.03.2000**

Remarks:  
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**Recommendation Number: G.655**

Id Number: G655-03

Organization: **Lucent Technologies**  
Main Contact: **Intellectual Property Department**  
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USA  
Tel. No.: +1 908 903 8037  
Fax. No.: +1 908 903 6329  
E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Optical fiber having a low-disp. slope in the amplifier region**

Patent Number: **5 878 182**

Patent Country: **United States**

Date Patent Statement Received: **27.03.2000**

Remarks:  
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**Recommendation Number: G.661**

Id Number: G661-01

Organization: **Litton Guidance and Control**

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Tel. No.: +1 818 715 4263

Fax. No.: +1 818 715 5500

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Licensing declaration: Will discuss sublicensing agreements

Patent Title:

Patent Number: **4 676 830**

Patent Country: **United States**

Date Patent Statement Received: **01.04.1996**

Remarks:  
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**Recommendation Number: G.661**

Id Number: G661-02

Organization: **Litton Guidance and Control**

Main Contact: **Executive Director - Technology Licensing**

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Licensing declaration: Will discuss sublicensing agreements

Patent Title:

Patent Number: **4 723 824**

Patent Country: **United States**

Date Patent Statement Received: **01.04.1996**

Remarks:  
-----

**Recommendation Number: G.661**

Id Number: G661-03

Organization: **Litton Guidance and Control**

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Licensing declaration: Will discuss sublicensing agreements

Patent Title:

Patent Number: **4 859 016**

Patent Country: **United States**

Date Patent Statement Received: **01.04.1996**

Remarks:  
-----

**Recommendation Number: G.662**

Id Number: G662-01

Organization: **Litton Guidance and Control**

Main Contact: **Executive Director - Technology Licensing**

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E-mail:

Licensing declaration: Will discuss sublicensing agreements

Patent Title:

Patent Number: **4 676 830**

Patent Country: **United States**

Date Patent Statement Received: **01.04.1996**

Remarks:  
-----

**Recommendation Number: G.662**

Id Number: G662-02

Organization: **Litton Guidance and Control**

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E-mail:

Licensing declaration: Will discuss sublicensing agreements

Patent Title:

Patent Number: **4 723 824**

Patent Country: **United States**

Date Patent Statement Received: **01.04.1996**

Remarks:  
-----

**Recommendation Number: G.662**

Id Number: G662-03

Organization: **Litton Guidance and Control**

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Fax. No.: +1 818 715 5500

E-mail:

Licensing declaration: Will discuss sublicensing agreements

Patent Title:

Patent Number: **4 859 016**

Patent Country: **United States**

Date Patent Statement Received: **01.04.1996**

Remarks:  
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**Recommendation Number: G.663**

Id Number: G663-04

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 510 931**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
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**Recommendation Number: G.663**

Id Number: G663-05

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 526 163**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
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**Recommendation Number: G.663**

Id Number: G663-06

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **08/400 762 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
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**Recommendation Number: G.663**

Id Number: G663-07

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 521 737**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:

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**Recommendation Number: G.664**

Id Number: G664-01

Organization: **Pirelli Cavi e Sistemi S.p.A.**

Main Contact: **Standards Manager**

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Tel. No.: +39 2 6442 5502

Fax. No.: +39 2 6442 5830

E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in the United States)

Patent Title: **Optical fibre telecommunication line with shut-off control**

Patent Number: **507 367**

Patent Country: **Europe**

Date Patent Statement Received: **27.11.1998**

Remarks: Informed from Pirelli on 25.07.2001 of the request of deletion of this statement since the patent belongs to Cisco System ( Mr. Robert Barr of Cisco Systemes Inc, 170 West Tasman Drive, San Jose, CA 95134-1706(USA).

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**Recommendation Number: G.664**

Id Number: G664-02

Organization: **Pirelli Cavi e Sistemi S.p.A.**

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Fax. No.: +39 2 6442 5830

E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in the United States)

Patent Title: **Optical fibre telecommunications line with protection device for optical amplifiers**

Patent Number: **506 163**

Patent Country: **Europe**

Date Patent Statement Received: **27.11.1998**

Remarks: Informed from Pirelli on 25.07.2001 of the request of deletion of this statement since the patent belongs to Cisco System ( Mr. Robert Barr of Cisco Systemes Inc, 170 West Tasman Drive, San Jose, CA 95134-1706(USA).

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**Recommendation Number: G.664**

Id Number: G664-03

Organization: **Bosch Telecom GmbH**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Anordnung zur Ueberwachung einer Lichtwellenleiter-Uebertragungsstrecke  
(Arrangement for monitoring a light-guide transmission section)**

Patent Number: **DE 43 17 863**

Patent Country: **Germany**

Date Patent Statement Received: **21.08.1998**

Remarks:  
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**Recommendation Number: G.664**

Id Number: G664-04

Organization: **Alcatel**  
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E-mail: [bernard.lamoureux@alcatel.fr](mailto:bernard.lamoureux@alcatel.fr)

Licensing declaration: Pat. pol. 2.2

Patent Title: **Fail-safe automatic shut-down apparatus and method for high output power optical communication systems**

Patent Number: **5 428 471**

Patent Country: **United States**

Date Patent Statement Received: **30.09.1998**

Remarks:  
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**Recommendation Number: G.671**

Id Number: G671-01

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:  
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**Recommendation Number: G.681**

Id Number: G681-01

Organization: **Alcatel CIT (simply Alcatel)**

Main Contact: **Mr. Bernard Lamoureux**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **System for optically transmitting digital communications over an optical fiber with dispersion at the operating wavelength**

Patent Number: **5 371 625**

Patent Country: **United States**

Date Patent Statement Received: **10.11.1995**

Remarks:

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**Recommendation Number: G.681**

Id Number: G681-04

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 510 931**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
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**Recommendation Number: G.681**

Id Number: G681-05

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 526 163**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
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**Recommendation Number: G.681**

Id Number: G681-06

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **08/400 762 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
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**Recommendation Number: G.681**

Id Number: G681-07

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 521 737**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
-----

**Recommendation Number: G.681**

Id Number: G681-08

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

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**Recommendation Number: G.691**

Id Number: G691-01

Organization: **British Telecommunications, plc**  
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Fax. No.: +44 71 728 7849  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **SBS suppression**

Patent Number: **99 632**

Patent Country: **Europe**

Date Patent Statement Received: **12.07.1999**

Remarks:

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**Recommendation Number: G.691**

Id Number: G691-02

Organization: **Alcatel CIT (simply Alcatel)**

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E-mail: [bernard.lamoureux@alcatel.fr](mailto:bernard.lamoureux@alcatel.fr)

Licensing declaration: Pat. pol. 2.2

Patent Title: **System for optically transmitting digital communications over an optical fiber with dispersion at the operating wavelength**

Patent Number: **5 371 625**

Patent Country: **United States**

Date Patent Statement Received: **10.11.1995**

Remarks:  
-----

**Recommendation Number: G.691**

Id Number: G691-05

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
Legal and Industry Relations Grp.**

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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 510 931**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
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**Recommendation Number: G.691**

Id Number: G691-06

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 526 163**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:

-----

**Recommendation Number: G.691**

Id Number: G691-07

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **08/400 762 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
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**Recommendation Number: G.691**

Id Number: G691-08

Organization: **Fujitsu Ltd.**

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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 521 737**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
-----

**Recommendation Number: G.691**

Id Number: G691-09

Organization: **Pirelli Cavi e Sistemi S.p.A.**

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Licensing declaration: Pat. pol. 2.2 ( Counterpart in Europe)

Patent Title:

Patent Number: **5 267 073**

Patent Country: **United States**

Date Patent Statement Received: **09.06.1998**

Remarks: Informed from Pirelli on 25.07.2001 of the request of deletion of this statement since the patent belongs to Cisco System ( Mr. Robert Barr of Cisco Systemes Inc, 170 West Tasman Drive, San Jose, CA 95134-1706(USA).

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**Recommendation Number: G.691**

Id Number: G691-11

Organization: **Hitachi, Ltd.**

Main Contact: **US/European IP Licensing Department**

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Tel. No.: +81 3 3212 1111

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Optical repeater and optical transmitter**

Patent Number: **5 875 046**

Patent Country: **United States**

Date Patent Statement Received: **01.06.1999**

Remarks:

-----

**Recommendation Number: G.691**

Id Number: G691-12

Organization: **Hitachi, Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Optical multiplex transmission equipment**

Patent Number: **5 861 972**

Patent Country: **United States**

Date Patent Statement Received: **01.06.1999**

Remarks:

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**Recommendation Number: G.691**

Id Number: G691-13

Organization: **ECI Telecom Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

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**Recommendation Number: G.692**

Id Number: G692-04

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 510 931**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
-----

**Recommendation Number: G.692**

Id Number: G692-05

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 526 163**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
-----

**Recommendation Number: G.692**

Id Number: G692-06

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **08/400 762 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
-----

**Recommendation Number: G.692**

Id Number: G692-07

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 521 737**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
-----

**Recommendation Number: G.692**

Id Number: G692-08

Organization: **Pirelli Cavi e Sistemi S.p.A.**

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E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in Europe)

Patent Title:

Patent Number: **5 267 073**

Patent Country: **United States**

Date Patent Statement Received: **09.06.1998**

Remarks: Informed from Pirelli on 25.07.2001 of the request of deletion of this statement since the patent belongs to Cisco System ( Mr. Robert Barr of Cisco Systemes Inc, 170 West Tasman Drive, San Jose, CA 95134-1706(USA).

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**Recommendation Number: G.692**

Id Number: G692-12

Organization: **Pirelli Cavi e Sistemi S.p.A.**

Main Contact: **Standards Manager**

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Licensing declaration: Pat. pol. 2.2 (Counterpart in the United States)

Patent Title: **Wavelength division multiplexing telecommunication system with dispersion-shifted optical fibres**

Patent Number: **717 515**

Patent Country: **Europe**

Date Patent Statement Received: **20.11.1998**

Remarks: Informed from Pirelli on 25.07.2001 of the request of deletion of this statement since the patent belongs to Cisco System ( Mr. Robert Barr of Cisco Systemes Inc, 170 West Tasman Drive, San Jose, CA 95134-1706(USA).

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**Recommendation Number: G.692**

Id Number: G692-13

Organization: **Hitachi, Ltd.**

Main Contact: **US/European IP Licensing Department**

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Fax. No.: +81 3 3214 3110/31

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Optical repeater and optical transmitter**

Patent Number: **5 875 046**

Patent Country: **United States**

Date Patent Statement Received: **01.06.1999**

Remarks:

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**Recommendation Number: G.692**

Id Number: G692-14

Organization: **Hitachi, Ltd.**

Main Contact: **US/European IP Licensing Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Optical multiplex transmission equipment**

Patent Number: **5 861 972**

Patent Country: **United States**

Date Patent Statement Received: **01.06.1999**

Remarks:  
-----

**Recommendation Number: G.692**

Id Number: G692-15

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Fax. No.: +972 3 926 6876

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

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**Recommendation Number: G.7041**

Id Number: G7041-01

Organization: **Nortel Networks Limited**

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Fax. No.: +1 972 684 3127

E-mail: weissr@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe, Canada and Japan.)

Patent Title: **Data stream frame synchronisation**

Patent Number: **5 367 544**

Patent Country: **United States**

Date Patent Statement Received: **04.07.2003**

Remarks: = ITU-T Rec. Y.1303

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**Recommendation Number: G.707**

Id Number: G707-01

Organization: **Nortel Networks Limited**  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Communication system with protection switching and channel identities**

Patent Number: **4646286**

Patent Country: **United States**

Date Patent Statement Received: **05.10.1988**

Remarks:  
-----

**Recommendation Number: G.707**

Id Number: G707-02

Organization: **Nortel Networks Limited**  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Network multiplex structure**

Patent Number: **4667324**

Patent Country: **United States**

Date Patent Statement Received: **05.10.1988**

Remarks:  
-----

**Recommendation Number: G.707**

Id Number: G707-03

Organization: **Nortel Networks Limited**  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Synchronization of asynchronous data signals**

Patent Number: **058010 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **05.10.1988**

Remarks:  
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**Recommendation Number: G.707**

Id Number: G707-04

Organization: **Nortel Networks Limited**  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada, Japan, Korea, France, Germany and UK.)

Patent Title: **Transmission system using forward error correction**

Patent Number: **4 755 993**

Patent Country: **United States**

Date Patent Statement Received: **25.04.2000**

Remarks:  
-----

**Recommendation Number: G.707**

Id Number: G707-05

Organization: **British Telecommunications, plc**  
Main Contact: **BT Group Legal Services, Intellectual Property Dept.**  
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United Kingdom  
Tel. No.: +44 71 728 7230  
Fax. No.: +44 71 728 7849  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for tunnelling data in a network**

Patent Number: **WO GB/02/00361 (app;.no.)**

Patent Country: **United Kingdom**

Date Patent Statement Received: **07.05.2002**

Remarks:  
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**Recommendation Number: G.707**

Id Number: G707-06

Organization: **Siemens**

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Fax. No.: +49 89 6368 1855

E-mail: dieter.reinhardt@mchm.siemens.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for inserting an asynchronous 139,264 kbit/s signal**

Patent Number: **589849**

Patent Country: **Austria**

Date Patent Statement Received: **19.12.2002**

Remarks:

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**Recommendation Number: G.707**

Id Number: G707-07

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for monitoring and controlling the traffic in digital networks**

Patent Number: **214 398**

Patent Country: **Europe**

Date Patent Statement Received: **19.12.2002**

Remarks:

-----

**Recommendation Number: G.707**

Id Number: G707-08

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for monitoring the quality of series-connected transmission sections**

Patent Number: **388495**

Patent Country: **Europe**

Date Patent Statement Received: **19.12.2002**

Remarks:

-----

**Recommendation Number: G.707**

Id Number: G707-09

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for transmitting a digital broadband signal**

Patent Number: **429 888**

Patent Country: **Europe**

Date Patent Statement Received: **19.12.2002**

Remarks:

-----

**Recommendation Number: G.708**

Id Number: G708-01

Organization: **Nortel Networks Limited**  
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USA  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Communication system with protection switching and channel identities**

Patent Number: **4646286**

Patent Country: **United States**

Date Patent Statement Received: **05.10.1988**

Remarks:  
-----

**Recommendation Number: G.708**

Id Number: G708-02

Organization: **Nortel Networks Limited**  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Network multiplex structure**

Patent Number: **4667324**

Patent Country: **United States**

Date Patent Statement Received: **05.10.1988**

Remarks:  
-----

**Recommendation Number: G.708**

Id Number: G708-03

Organization: **Nortel Networks Limited**  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Synchronization of asynchronous data signals**

Patent Number: **058010 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **05.10.1988**

Remarks:  
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**Recommendation Number: G.709**

Id Number: G709-01

Organization: **Nortel Networks Limited**  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Communication system with protection switching and channel identities**

Patent Number: **4646286**

Patent Country: **United States**

Date Patent Statement Received: **05.10.1988**

Remarks:  
-----



**Recommendation Number: G.709**

Id Number: G709-02

Organization: **Nortel Networks Limited**  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Network multiplex structure**

Patent Number: **4667324**

Patent Country: **United States**

Date Patent Statement Received: **05.10.1988**

Remarks:  
-----

**Recommendation Number: G.709**

Id Number: G709-03

Organization: **Nortel Networks Limited**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Synchronization of asynchronous data signals**

Patent Number: **058010 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **05.10.1988**

Remarks:  
-----

**Recommendation Number: G.709**

Id Number: G709-04

Organization: **ECI Telecom Ltd.**

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Fax. No.: +972 3 926 6876

E-mail: gil.ingel@ecitele.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

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**Recommendation Number: G.709**

Id Number: G709-05

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.10.2003**

Remarks:

**Received after the apporval of the Recommendatin in March 2003.**

-----

**Recommendation Number: G.709**

Id Number: G709-06

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. )

Patent Title: **Synchronous method of synchronous digital transmission network and  
transmission equipment for synchronous digital transmission network**

Patent Number: **H5-50 42 24**

Patent Country: **Japan**

Date Patent Statement Received: **12.01.2004**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

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**Recommendation Number: G.711**

Id Number: G711-01

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

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Licensing declaration: Pat. pol. 2.2 (For Appendix I. Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.08.2001**

Remarks:

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**Recommendation Number: G.721**

Id Number: G721-01

Organization: **Centro Studi e Laboratori Telecomunicazioni SPA**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.01.1984**

Remarks:

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**Recommendation Number: G.721**

Id Number: G721-02

Organization: **AT&T Corp.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.04.1983**

Remarks: Informed from AT&T on 11 July 2001 that AT&T no longer owns essential IPR for this Recommendation.

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**Recommendation Number: G.721**

Id Number: G721-03

Organization: **British Telecommunications, plc**  
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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.10.1983**

Remarks:  
-----

**Recommendation Number: G.721**

Id Number: G721-04

Organization: **France Telecom/France Telecom Research and Development Center**

Main Contact: **Mr. Patrick Bonnier, Patents and Contracts Manager, Technology Transfert and Intellectual Property Dept.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **12.10.1983**

Remarks:  
-----

**Recommendation Number: G.721**

Id Number: G721-05

Organization: **Communications Satellite Corporation**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **06.10.1983**

Remarks:

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**Recommendation Number: G.721**

Id Number: G721-06

Organization: **NEC CORPORATION**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.10.1983**

Remarks:  
-----

**Recommendation Number: G.721**

Id Number: G721-07

Organization: **Nortel Networks Limited**  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.10.1983**

Remarks:  
-----

**Recommendation Number: G.721**

Id Number: G721-08

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **28.10.1983**

Remarks:

-----

**Recommendation Number: G.721**

Id Number: G721-09

Organization: **Société Anonyme de Télécommunications**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number: **79-20-445**

Patent Country: **France**

Date Patent Statement Received: **18.10.1983**

Remarks:

-----

**Recommendation Number: G.721**

Id Number: G721-10

Organization: **Société Anonyme de Télécommunications**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number: **79-29-471**

Patent Country: **France**

Date Patent Statement Received: **18.10.1983**

Remarks:

-----



**Recommendation Number: G.721**

Id Number: G721-11

Organization: **Società Italiana per l'Esercizio Telefonico s.p.a.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.11.1983**

Remarks:

-----

**Recommendation Number: G.721**

Id Number: G721-12

Organization: **Télécommunications Radioélectriques et Téléphoniques**

Main Contact: **Secretary General**

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Tel. No.: +33 1 4581 1112

Fax. No.:

E-mail:

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **21.10.1983**

Remarks:  
-----

**Recommendation Number: G.722.1 Annex C**

Id Number: G722\_1\_AnnexC

Organization: **Polycom, Inc.**  
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Tel. No.: +1 925 924 6000  
Fax. No.: +1 925 924 6100  
E-mail: generalcounsel@polycom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.11.2004**

Remarks:  
-----

**Recommendation Number: G.722.1**

Id Number: G722\_1-01

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

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Tel. No.: +1 973 236 6760

Fax. No.: +1 973 236 6452

E-mail: tfrost@att.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.04.1996**

Remarks: Informed from AT&T on 11 July 2001 that AT&T no longer owns essential IPR for this Recommendation.

-----

**Recommendation Number: G.722.1**

Id Number: G722\_1-02

Organization: **PictureTel Corp.**  
Main Contact: **Mr. Rob Ferguson**  
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Tel. No.: +1 978 292 3533  
Fax. No.: +1 978 292 3328  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **30.01.1998**

Remarks:

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**Recommendation Number: G.722.2**

Id Number: G722\_2-01

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

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USA

Tel. No.: +1 973 236 6760

Fax. No.: +1 973 236 6452

E-mail: tfrost@att.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.04.1996**

Remarks: Informed from AT&T on 11 July 2001 that AT&T no longer owns essential IPR for this Recommendation.

-----

**Recommendation Number: G.722.2**

Id Number: G722\_2-02

Organization: **PictureTel Corp.**  
Main Contact: **Mr. Rob Ferguson**  
Address: 100 Minuteman Road  
Andover, Massachusetts 01810  
USA  
Tel. No.: +1 978 292 3533  
Fax. No.: +1 978 292 3328  
E-mail: fergusonr@pictel.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **30.01.1998**

Remarks:  
-----

**Recommendation Number: G.722.2**

Id Number: G722\_2-03

Organization: **VoiceAge Corporation**  
Main Contact: **Ms. Hélène Jay, Vice-President Licensing**  
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Canada  
Tel. No.: +1 514 737 4940  
Fax. No.: +1 514 908 2037  
E-mail: helenej@voiceage.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe, Japan, Australia etc.)

Patent Title: **Perpetual weighting device and method for efficient coding of wideband signals**

Patent Number: **2 347 668 (appl. no.)**

Patent Country: **Canada**

Date Patent Statement Received: **22.02.2002**

Remarks:

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**Recommendation Number: G.722.2**

Id Number: G722\_2-04

Organization: **VoiceAge Corporation**  
Main Contact: **Ms. Hélène Jay, Vice-President Licensing**  
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Tel. No.: +1 514 737 4940  
Fax. No.: +1 514 908 2037  
E-mail: helenej@voiceage.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe, Japan, Australia etc.)

Patent Title: **A method and device of adaptive bandwidth pitch search in coding wideband signals**

Patent Number: **2 347 743 (appl. no.)**

Patent Country: **Canada**

Date Patent Statement Received: **22.02.2002**

Remarks:  
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**Recommendation Number: G.722.2**

Id Number: G722\_2-05

Organization: **VoiceAge Corporation**  
Main Contact: **Ms. Hélène Jay, Vice-President Licensing**  
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Fax. No.: +1 514 908 2037  
E-mail: helenej@voiceage.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe, Japan, New Zealand etc.)

Patent Title: **Periodicity enhancement in decoding wideband signals**

Patent Number: **2 347 667 (appl. no.)**

Patent Country: **Canada**

Date Patent Statement Received: **22.02.2002**

Remarks:

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**Recommendation Number: G.722.2**

Id Number: G722\_2-06

Organization: **VoiceAge Corporation**  
Main Contact: **Ms. Hélène Jay, Vice-President Licensing**  
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E-mail: helenej@voiceage.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe, Japan, New Zealand etc.)

Patent Title: **High frequency content recovering method and device for oversampled synthesized wideband signals**

Patent Number: **2 347 735 (appl. no.)**

Patent Country: **Canada**

Date Patent Statement Received: **22.02.2002**

Remarks:  
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**Recommendation Number: G.722.2**

Id Number: G722\_2-07

Organization: **VoiceAge Corporation**  
Main Contact: **Ms. Hélène Jay, Vice-President Licensing**  
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Tel. No.: +1 514 737 4940  
Fax. No.: +1 514 908 2037  
E-mail: helenej@voiceage.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Gain-smoothing amplifier device and method in codecs for wideband speech and audio signals**

Patent Number: **2 290 037 (appl. no.)**

Patent Country: **Canada**

Date Patent Statement Received: **22.02.2002**

Remarks:  
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**Recommendation Number: G.722.2**

Id Number: G722\_2-08

Organization: **VoiceAge Corporation**  
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Fax. No.: +1 514 908 2037  
E-mail: helenej@voiceage.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **A method for indexing pulse positions and signs in algebraic codebooks for efficient coding of wideband signals**

Patent Number: **2 327 041 (appl. no.)**

Patent Country: **Canada**

Date Patent Statement Received: **22.02.2002**

Remarks:  
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**Recommendation Number: G.722.2**

Id Number: G722\_2-09

Organization: **France Telecom R&D/VAT**

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E-mail: francois.jamet@francetelecom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada, the United States, Japan, Korea, etc.)

Patent Title: **Speech coding method using linear prediction and algebraic code excitation**

Patent Number: **EP 0749626**

Patent Country: **Europe**

Date Patent Statement Received: **28.09.2004**

Remarks:

**Received after the approval of the Recommendation in July 2003.**

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**Recommendation Number: G.722**

Id Number: G722-01

Organization: **Nortel Networks Limited**  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; counterparts (applications for patents) in Canada, Japan, 7 European countries)

Patent Title: **Adaptive differential PCM system with residual-driven adaption of feedback predictor**

Patent Number: **459 3398**

Patent Country: **United States**

Date Patent Statement Received: **19.06.1986**

Remarks:  
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**Recommendation Number: G.722**

Id Number: G722-02

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

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E-mail: tfrost@att.com

Licensing declaration: Pat. pol. 2.2, list of 27 possible patents

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.06.1986**

Remarks: Informed from AT&T on 11 July 2001 that AT&T no longer owns essential IPR for this Recommendation.

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**Recommendation Number: G.722**

Id Number: G722-03

Organization: **KDDI Corporation**

Main Contact: **Mr. Tetsuya Kondoh, Intellectual Property Department, Legal & Intellectual Division**

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Tokyo 102-8460  
Japan

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E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; at request of user, will consider other licensing arrangements)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.06.1986**

Remarks:

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**Recommendation Number: G.722**

Id Number: G722-04

Organization: **British Telecommunications, plc**  
Main Contact: **BT Group Legal Services, Intellectual Property Dept.**  
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Tel. No.: +44 71 728 7230  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.03.1986**

Remarks:  
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**Recommendation Number: G.722**

Id Number: G722-05

Organization: **NEC CORPORATION**

Main Contact: **Mr. Hideki Ogata, General Manager, Intellectual Property Division, Nec Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **24.06.1986**

Remarks:  
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**Recommendation Number: G.723.1**

Id Number: G723\_1-01

Organization: **France Telecom/France Telecom Research and Development Center**

Main Contact: **Mr. Patrick Bonnier, Patents and Contracts Manager, Technology Transfert and Intellectual Property Dept.**

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Tel. No.: +33 1 4529 5502

Fax. No.: +33 1 4529 6907

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Procédé de codage de la parole à prédiction linéaire et excitation par codes algébriques**

Patent Number: **INPI 95 00133 (appl no.)**

Patent Country: **France**

Date Patent Statement Received: **04.01.1996**

Remarks:  
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**Recommendation Number: G.723.1**

Id Number: G723\_1-02

Organization: **France Telecom/France Telecom Research and Development Center**

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E-mail: patrick.bonnier@rd.francetelecom.fr

Licensing declaration: Pat. pol. 2.2

Patent Title: **Procédé et dispositif de création d'un bruit de confort dans un système de transmission numérique de parole**

Patent Number: **INPI 95 12039**

Patent Country: **France**

Date Patent Statement Received: **04.01.1996**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-03

Organization: **Université de Sherbrooke**

Main Contact: **Bureau de liaison entreprises-Université**

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Canada

Tel. No.: +1 819 821 7840

Fax. No.: +1 819 821 8215

E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in Canada)

Patent Title: **Dynamic codebook for efficient speech coding based on algebraic codes**

Patent Number: **5 444 816**

Patent Country: **United States**

Date Patent Statement Received: **04.01.1996**

Remarks:

-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-04

Organization: **Robert Bosch GmbH**  
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Fax. No.: +49 711 811 33182  
E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **26.02.1996**

Remarks: G.723.1 and for its Annexs

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**Recommendation Number: G.723.1**

Id Number: G723\_1-05

Organization: **British Telecommunications, plc**  
Main Contact: **BT Group Legal Services, Intellectual Property Dept.**  
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Fax. No.: +44 71 728 7849  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **880 5795 (appl. no.)**

Patent Country: **United Kingdom**

Date Patent Statement Received: **20.05.1996**

Remarks: G.723.1 and for Annex A. Informed from BT on 10 April. 2003 that this patent would be transferred to LG Electronics. Inc. on 15 April 2003. See G723\_1-37.

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**Recommendation Number: G.723.1**

Id Number: G723\_1-06

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

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E-mail: tfrost@att.com

Licensing declaration: Pat. pol. 2.2 (Counterparts in Canada, France, Germany, Great Britain, Japan, Sweden)

Patent Title: **Digital speech coder**

Patent Number: **RE32580**

Patent Country: **United States**

Date Patent Statement Received: **19.04.1996**

Remarks: Addressed to Annex B

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**Recommendation Number: G.723.1**

Id Number: G723\_1-07

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Counterparts in Canada, France, United Kingdom, Netherlands, Japan and Sweden)

Patent Title: **Sound synthesizer**

Patent Number: **4 393 272**

Patent Country: **United States**

Date Patent Statement Received: **03.04.1996**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-08

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2 (Counterpart in France, United Kingdom, Germany and Japan)

Patent Title: **Speech coding and decoding method using adaptive and random codebooks**

Patent Number: **5 396 576**

Patent Country: **United States**

Date Patent Statement Received: **03.04.1996**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-09

Organization: **Nippon Telegraph and Telephone Corporation**  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2 (Counterparts in United States, Germany, France, United Kingdom, Italy and Japan)

Patent Title: **Speech coding method and apparatus for the same**

Patent Number: **93 401 656.9**

Patent Country: **Europe**

Date Patent Statement Received: **03.04.1996**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-10

Organization: **Nippon Telegraph and Telephone Corporation**  
Main Contact: **Senior Manager, Intellectual Property Department**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **All-pole digital filter**

Patent Number: **1 494 819**

Patent Country: **Japan**

Date Patent Statement Received: **03.04.1996**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-11

Organization: **Nippon Telegraph and Telephone Corporation**  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Speech coding method**

Patent Number: **5-70534 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **03.04.1996**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-12

Organization: **Nippon Telegraph and Telephone Corporation**  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Speech coding-decoding method**

Patent Number: **3-117646 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **03.04.1996**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-13

Organization: **Nippon Telegraph and Telephone Corporation**  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Encoding-decoding method for speech excitation signals**

Patent Number: **3-167124**

Patent Country: **Japan**

Date Patent Statement Received: **03.04.1996**

Remarks:  
-----



**Recommendation Number: G.723.1**

Id Number: G723\_1-14

Organization: **Siemens**

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Fax. No.: +49 89 6368 1855

E-mail: dieter.reinhardt@mchm.siemens.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; counterparts in Germany and Canada)

Patent Title:

Patent Number: **4 843 612**

Patent Country: **United States**

Date Patent Statement Received: **28.02.1997**

Remarks: Addressed to Annex A

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**Recommendation Number: G.723.1**

Id Number: G723\_1-15

Organization: **ACL/DSP Group Inc**

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Santa Clara, California 95054  
USA

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Fax. No.: +1 408 986 4490

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **A pitch post filter**

Patent Number: **5 544 278**

Patent Country: **United States**

Date Patent Statement Received: **14.05.1997**

Remarks:

-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-16

Organization: **ACL/DSP Group Inc**

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Santa Clara, California 95054  
USA

Tel. No.: +1 408 986 4300

Fax. No.: +1 408 986 4490

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **A multi-pulse analysis speech processing system and method**

Patent Number: **5 568 588**

Patent Country: **United States**

Date Patent Statement Received: **14.05.1997**

Remarks:

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**Recommendation Number: G.723.1**

Id Number: G723\_1-17

Organization: **Nokia**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.01.1998**

Remarks:

-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-18

Organization: **NEC CORPORATION**

Main Contact: **Mr. Hideki Ogata, General Manager, Intellectual Property Division, Nec Corporation**

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Fax. No.: +81 3 3456 4903

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **1 740 692**

Patent Country: **Japan**

Date Patent Statement Received: **11.01.1998**

Remarks:

-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-19

Organization: **NEC CORPORATION**

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Fax. No.: +81 3 3456 4903

E-mail: h-ogata@ce.jp.nec.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **1 740 693**

Patent Country: **Japan**

Date Patent Statement Received: **11.01.1998**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-20

Organization: **NEC CORPORATION**

Main Contact: **Mr. Hideki Ogata, General Manager, Intellectual Property Division, Nec Corporation**

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Fax. No.: +81 3 3456 4903

E-mail: h-ogata@ce.jp.nec.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **1 740 694**

Patent Country: **Japan**

Date Patent Statement Received: **11.01.1998**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-21

Organization: **NEC CORPORATION**

Main Contact: **Mr. Hideki Ogata, General Manager, Intellectual Property Division, Nec Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **4 716 592**

Patent Country: **United States**

Date Patent Statement Received: **11.01.1998**

Remarks:  
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**Recommendation Number: G.723.1**

Id Number: G723\_1-22

Organization: **NEC CORPORATION**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **1 197 619**

Patent Country: **Canada**

Date Patent Statement Received: **11.01.1998**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-23

Organization: **BTG USA Inc**

Main Contact: **Associate Vice President**

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Tel. No.: +1 610 278 1660

Fax. No.: +1 610 278 1605

E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in Canada)

Patent Title: **Vector excitation speech or audio coder for transmission of storage**

Patent Number: **4 868 867**

Patent Country: **United States**

Date Patent Statement Received: **24.03.1998**

Remarks:

-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-24

Organization: **Centro Studi e Laboratori Telecomunicazioni SPA**

Main Contact: **Industrial Property Department**

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Italy

Tel. No.: +39 11 228 5409

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E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterparts in France, Germany, UK, Netherlands, Sweden, Canada, Japan)

Patent Title: **CB 429: System for coding wide-band audio signals**

Patent Number: **1232084**

Patent Country: **Italy**

Date Patent Statement Received: **29.01.1996**

Remarks:

-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-25

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

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E-mail: tfrost@att.com

Licensing declaration: Pat. pol. 2.2 (Counterparts in Canada, France, Germany, Great Britain, Japan, Sweden)

Patent Title: **Digital speech coder**

Patent Number: **RE32580**

Patent Country: **United States**

Date Patent Statement Received: **15.07.1995**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-26

Organization: **Lucent Technologies Inc.**  
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E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Counterparts in Belgium, Canada, France, Great Britain, Netherlands, Sweden, Germany)

Patent Title: **Multiple LPC speech processing arrangement**

Patent Number: **4 701 954**

Patent Country: **United States**

Date Patent Statement Received: **15.07.1995**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-27

Organization: **Lucent Technologies Inc.**  
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E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Counterparts Austria, Australia, Belgium, Canada, France, Germany, Great Briatain, Italy, Netherlands, Sweden, Switzerland, Taiwan)

Patent Title: **Predictive communication system filtering arrangement**

Patent Number: **4 617 676**

Patent Country: **United States**

Date Patent Statement Received: **15.07.1995**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

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**Recommendation Number: G.723.1**

Id Number: G723\_1-28

Organization: **Lucent Technologies Inc.**  
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E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Counterparts in Austria, Australia, Belgium, France, Germany, Great Britain, Hong Kong, Italy, Netherlands, Singapore, Sweden)

Patent Title: **Code-excited linear predictive vocoder using virtual searching**

Patent Number: **4 910 781**

Patent Country: **United States**

Date Patent Statement Received: **15.07.1995**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

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**Recommendation Number: G.723.1**

Id Number: G723\_1-29

Organization: **Robert Bosch GmbH**  
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E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2 (Counterparts in Europe and Pacific)

Patent Title: **Verfahren zur Aufbereitung von Daten, insbesondere fuer die Uebertragung mit veraenderlicher Kanalbitrate**

Patent Number: **19605418.4 (appl. no.)**

Patent Country: **Germany**

Date Patent Statement Received: **12.05.1998**

Remarks:  
-----



**Recommendation Number: G.723.1**

Id Number: G723\_1-30

Organization: **Robert Bosch GmbH**  
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Licensing declaration: Pat. pol. 2.2 (Counterparts in Europe, Finland)

Patent Title: **Verfahren zum Dekodieren von Binaersignalen**

Patent Number: **4137609**

Patent Country: **Germany**

Date Patent Statement Received: **12.05.1998**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-31

Organization: **Robert Bosch GmbH**  
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Licensing declaration: Pat. pol. 2.2 (Counterparts in Germany, Europe, United States, Finland, Hungary)

Patent Title: **Verfahren zur Aufbereitung von Daten, insbesondere von codierten Sprachsignalparametern**

Patent Number: **679980**

Patent Country: **Australia**

Date Patent Statement Received: **12.05.1998**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-32

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Speech decoder apparatus and speech encoder/decoder apparatus**

Patent Number: **2 659 605**

Patent Country: **Japan**

Date Patent Statement Received: **07.06.1999**

Remarks:

-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-33

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Speech encoder apparatus and speech encoding method**

Patent Number: **2 905 155**

Patent Country: **Japan**

Date Patent Statement Received: **07.06.1999**

Remarks:

-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-34

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **2084 950**

Patent Country: **Japan**

Date Patent Statement Received: **06.08.1999**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-35

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **1 665 593**

Patent Country: **Japan**

Date Patent Statement Received: **18.10.1999**

Remarks:

-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-36

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Voice encoding and voice decoding apparatus**

Patent Number: **5 717 724**

Patent Country: **United States**

Date Patent Statement Received: **27.11.2000**

Remarks:  
-----

**Recommendation Number: G.723.1**

Id Number: G723\_1-37

Organization: **LG Electronics Inc.**  
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Fax. No.: +82 23777 5151  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan, and USA.)

Patent Title: **Voice activity detection**

Patent Number: **335521, 548054**

Patent Country: **Europe**

Date Patent Statement Received: **10.04.2003**

Remarks: This patent was transferred from BT on 15 April 2003. See G723\_1-05.

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**Recommendation Number: G.723.1**

Id Number: G723\_1-38

Organization: **Mindspeed Technologies Inc.**

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CA92660

USA

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Fax. No.:

E-mail: ip.license@mindspeed.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Usage of voice activity detection for efficient coding of speed**

Patent Number: **5 689 615**

Patent Country: **United States**

Date Patent Statement Received: **13.05.2003**

Remarks:

**Received after the approval of the Recommendation in November 1996.**

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**Recommendation Number: G.723.1**

Id Number: G723\_1-39

Organization: **Mindspeed Technologies Inc.**  
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Fax. No.:  
E-mail: ip.license@mindspeed.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for generating frame voicing decisions of an incoming speech signal**

Patent Number: **5 774 849**

Patent Country: **United States**

Date Patent Statement Received: **13.05.2003**

Remarks:

**Received after the approval of the Recommendation in November 1996.**

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**Recommendation Number: G.728**

Id Number: G728-01

Organization: **Voicecraft Inc.**  
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E-mail: gersho@voicecraft.com

Licensing declaration: Pat. pol. 2.2 (Counterparts in Canada, Japan, European counterparts)

Patent Title: **Vector Adaptive Predictive Coder for Speech and Audio**

Patent Number: **4 969 192**

Patent Country: **United States**

Date Patent Statement Received: **09.02.1994**

Remarks:  
-----

**Recommendation Number: G.728**

Id Number: G728-02

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

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E-mail: tfrost@att.com

Licensing declaration: Pat. pol. 2.2 (Counterparts in Canada, France, Germany, Great Britain, Japan, Sweden)

Patent Title: **Digital speech coder**

Patent Number: **RE32580**

Patent Country: **United States**

Date Patent Statement Received: **15.07.1995**

Remarks:  
-----

**Recommendation Number: G.728**

Id Number: G728-03

Organization: **Lucent Technologies Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Counterparts Austria, Australia, Belgium, Canada, France, Germany, Great Briatain, Italy, Netherlands, Sweden, Switzerland, Taiwan)

Patent Title: **Predictive communication system filtering arrangement**

Patent Number: **4 617 676**

Patent Country: **United States**

Date Patent Statement Received: **15.07.1995**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: G.728**

Id Number: G728-04

Organization: **Lucent Technologies Inc.**  
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E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Counterparts in Austria, Australia)

Patent Title: **A low delay code-excited linear predictive coding for speech or audio signals**

Patent Number: **042012**

Patent Country: **Taiwan**

Date Patent Statement Received: **15.07.1995**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: G.728**

Id Number: G728-05

Organization: **Lucent Technologies Inc.**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Code-excited linear predictive coding with low delay for speech or audio signals**

Patent Number: **5 339 384**

Patent Country: **United States**

Date Patent Statement Received: **15.07.1995**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: G.728**

Id Number: G728-06

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.03.1997**

Remarks:

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**Recommendation Number: G.728**

Id Number: G728-07

Organization: **Nokia**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.01.1998**

Remarks:

-----

**Recommendation Number: G.728**

Id Number: G728-08

Organization: **BTG USA Inc**

Main Contact: **Associate Vice President**

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Tel. No.: +1 610 278 1660

Fax. No.: +1 610 278 1605

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Low-delay vector backward predictive coding of speech**

Patent Number: **4 868 867**

Patent Country: **United States**

Date Patent Statement Received: **18.05.1998**

Remarks:

-----

**Recommendation Number: G.728**

Id Number: G728-09

Organization: **ECI Telecom Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **12.05.1999**

Remarks:  
-----

**Recommendation Number: G.728**

Id Number: G728-10

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **2 084 950**

Patent Country: **Japan**

Date Patent Statement Received: **06.08.1999**

Remarks:  
-----

**Recommendation Number: G.728**

Id Number: G728-11

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **1 665 593**

Patent Country: **Japan**

Date Patent Statement Received: **18.10.1999**

Remarks:  
-----

**Recommendation Number: G.728**

Id Number: G728-12

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.08.2000**

Remarks:

-----

**Recommendation Number: G.729**

Id Number: G729-01

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

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E-mail: tfrost@att.com

Licensing declaration: Pat. pol. 2.2 (Counterparts in Canada, France, Germany, Great Britain, Japan, Sweden)

Patent Title: **Digital speech coder**

Patent Number: **RE32580**

Patent Country: **United States**

Date Patent Statement Received: **15.07.1995**

Remarks:  
-----

**Recommendation Number: G.729**

Id Number: G729-02

Organization: **Lucent Technologies Inc.**  
Main Contact: **Mr. Paul Fillinich, Intellectual Property Business**  
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Fax. No.: +1 732 949 4729  
E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Counterparts in Belgium, Canada, France, Great Britain, Netherlands, Sweden, Germany)

Patent Title: **Multiple LPC speech processing arrangement**

Patent Number: **4 701 954**

Patent Country: **United States**

Date Patent Statement Received: **15.07.1995**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----



**Recommendation Number: G.729**

Id Number: G729-03

Organization: **Lucent Technologies Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Counterparts Austria, Australia, Belgium, Canada, France, Germany, Great Briatain, Italy, Netherlands, Sweden, Switzerland, Taiwan)

Patent Title: **Predictive communication system filtering arrangement**

Patent Number: **4 617 676**

Patent Country: **United States**

Date Patent Statement Received: **15.07.1995**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: G.729**

Id Number: G729-04

Organization: **Lucent Technologies Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Counterparts in Austria, Australia, Belgium, France, Germany, Great Britain, Hong Kong, Italy, Netherlands, Singapore, Sweden)

Patent Title: **Code-excited linear predictive vocoder using virtual searching**

Patent Number: **4 910 781**

Patent Country: **United States**

Date Patent Statement Received: **15.07.1995**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: G.729**

Id Number: G729-05

Organization: **Centro Studi e Laboratori Telecomunicazioni SPA**

Main Contact: **Industrial Property Department**

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Licensing declaration: Pat. pol. 2.2 (Counterparts in France, Germany, UK, Netherlands, Sweden, Canada, Japan)

Patent Title: **CB 429: System for coding wide-band audio signals**

Patent Number: **1232084**

Patent Country: **Italy**

Date Patent Statement Received: **29.01.1996**

Remarks:

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**Recommendation Number: G.729**

Id Number: G729-06

Organization: **France Telecom/France Telecom Research and Development Center**

Main Contact: **Mr. Patrick Bonnier, Patents and Contracts Manager, Technology Transfert and Intellectual Property Dept.**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.11.1992**

Remarks:  
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**Recommendation Number: G.729**

Id Number: G729-07

Organization: **Université de Sherbrooke**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.11.1992**

Remarks:

-----

**Recommendation Number: G.729**

Id Number: G729-08

Organization: **France Telecom/France Telecom Research and Development Center**

Main Contact: **Mr. Patrick Bonnier, Patents and Contracts Manager, Technology Transfert and Intellectual Property Dept.**

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Tel. No.: +33 1 4529 5502

Fax. No.: +33 1 4529 6907

E-mail: patrick.bonnier@rd.francetelecom.fr

Licensing declaration: Pat. pol. 2.2

Patent Title: **Procédé de codage de la parole à prédiction linéaire et excitation par codes algébriques**

Patent Number: **INPI 95 00133 (appl. no.)**

Patent Country: **France**

Date Patent Statement Received: **04.01.1996**

Remarks:  
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**Recommendation Number: G.729**

Id Number: G729-09

Organization: **France Telecom/France Telecom Research and Development Center**  
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E-mail: patrick.bonnier@rd.francetelecom.fr

Licensing declaration: Pat. pol. 2.2

Patent Title: **Procédé d'adaptation du niveau de masquage du bruit dans un codeur de parole à analyse par synthèse utilisant un filtre de pondération perceptuelle à court-terme**

Patent Number: **INPI 95 05851 (appl. no.)**

Patent Country: **France**

Date Patent Statement Received: **04.01.1996**

Remarks:

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**Recommendation Number: G.729**

Id Number: G729-10

Organization: **Université de Sherbrooke**

Main Contact: **Bureau de liaison entreprises-Université**

Address:

Sherbrooke J1K 2R1

Canada

Tel. No.: +1 819 821 7840

Fax. No.: +1 819 821 8215

E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in Canada)

Patent Title: **Dynamic codebook for efficient speech coding based on algebraic codes**

Patent Number: **5 444 816**

Patent Country: **United States**

Date Patent Statement Received: **04.01.1996**

Remarks:

-----



**Recommendation Number: G.729**

Id Number: G729-11

Organization: **Université de Sherbrooke**

Main Contact: **Bureau de liaison entreprises-Université**

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Tel. No.: +1 819 821 7840

Fax. No.: +1 819 821 8215

E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in Canada)

Patent Title: **Fast sparse-algebraic codebook search for efficient speech coding**

Patent Number: **Continuation #08/438,703 (of patent 5 444 816)**

Patent Country: **United States**

Date Patent Statement Received: **04.01.1996**

Remarks:

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**Recommendation Number: G.729**

Id Number: G729-12

Organization: **Université de Sherbrooke**

Main Contact: **Bureau de liaison entreprises-Université**

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Canada

Tel. No.: +1 819 821 7840

Fax. No.: +1 819 821 8215

E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in Canada)

Patent Title: **Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech**

Patent Number: **Continuation #08/508,801 (of patent 5 444 816)**

Patent Country: **United States**

Date Patent Statement Received: **04.01.1996**

Remarks:

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**Recommendation Number: G.729**

Id Number: G729-13

Organization: **Conexant Systems, Inc**  
Main Contact: **Legal department**  
Address: 4311 Jamboree Road, P.O. Box C  
Newport Beach, CA 92660-3095  
USA  
Tel. No.: +1 949 483 4600  
Fax. No.:  
E-mail: ip.license@mindspeed.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.06.1996**

Remarks: Informed from Conexant on 14 April 2003 that due to changes in corporate ownership, the patent statement previously made under the name of the Rockwell Corporation is changed to Conexant. Mindspeed informed on 12 May 2003 that Mindspeed has taken over this patent. See G729-42 and 43..

-----

**Recommendation Number: G.729**

Id Number: G729-14

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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80506 Munich

Germany

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E-mail: dieter.reinhardt@mchm.siemens.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.10.1996**

Remarks:

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**Recommendation Number: G.729**

Id Number: G729-15

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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E-mail: dieter.reinhardt@mchm.siemens.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; counterparts in germany and Canada)

Patent Title:

Patent Number: **4 843 612**

Patent Country: **United States**

Date Patent Statement Received: **28.02.1997**

Remarks: Addressed to Annex B

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**Recommendation Number: G.729**

Id Number: G729-16

Organization: **Nippon Telegraph and Telephone Corporation**  
Main Contact: **Senior Manager, Intellectual Property Department**  
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Tokyo 163-1419  
Japan  
Tel. No.: +81 3 5353 4379  
Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2 (Counterparts in Canada, France, Germany, Japan, Netherlands, Sweden, United Kingdom)

Patent Title: **Sound synthesizer**

Patent Number: **4 393 272**

Patent Country: **United States**

Date Patent Statement Received: **30.09.1997**

Remarks:  
-----

**Recommendation Number: G.729**

Id Number: G729-17

Organization: **Nippon Telegraph and Telephone Corporation**  
Main Contact: **Senior Manager, Intellectual Property Department**  
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Tel. No.: +81 3 5353 4379  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2 (Counterparts in Canada, Europe, France, Germany, Japan, Sweden, United Kingdom)

Patent Title: **Method and apparatus for multiplexed vector quantization**

Patent Number: **4 992 508**

Patent Country: **United States**

Date Patent Statement Received: **30.09.1997**

Remarks:

-----

**Recommendation Number: G.729**

Id Number: G729-18

Organization: **Nippon Telegraph and Telephone Corporation**  
Main Contact: **Senior Manager, Intellectual Property Department**  
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Tokyo 163-1419  
Japan  
Tel. No.: +81 3 5353 4379  
Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2 (Counterparts in Europe)

Patent Title: **Speech coding and decoding methods using adaptive and random codebooks**

Patent Number: **5 396 576**

Patent Country: **United States**

Date Patent Statement Received: **30.09.1997**

Remarks:  
-----



**Recommendation Number: G.729**

Id Number: G729-19

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Speech coding and decoding methods and apparatus for the same**

Patent Number: **577 488**

Patent Country: **Europe**

Date Patent Statement Received: **30.09.1997**

Remarks:  
-----

**Recommendation Number: G.729**

Id Number: G729-20

Organization: **Nippon Telegraph and Telephone Corporation**  
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Tel. No.: +81 3 5353 4379  
Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2 (Counterparts in Japan, Malaysia, Taiwan, Thailand); Patent Cooperation Treaty PCT countries are Australia, Canada, China, Europe, Korea Rep., Singapore, United States

Patent Title: **Vector quantization and decoding methods**

Patent Number: **95/01989 (appl. no.)**

Patent Country: **PCT**

Date Patent Statement Received: **30.09.1997**

Remarks:  
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**Recommendation Number: G.729**

Id Number: G729-21

Organization: **Nippon Telegraph and Telephone Corporation**  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Zenkyoukukata degitaru firuta**

Patent Number: **1 494 819**

Patent Country: **Japan**

Date Patent Statement Received: **30.09.1997**

Remarks:  
-----

**Recommendation Number: G.729**

Id Number: G729-22

Organization: **Nippon Telegraph and Telephone Corporation**  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Onsei hugouka-hou**

Patent Number: **5-70534 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **30.09.1997**

Remarks:  
-----

**Recommendation Number: G.729**

Id Number: G729-23

Organization: **Nippon Telegraph and Telephone Corporation**  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Onsei hugouka-hukugouka-hou**

Patent Number: **3-117646 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **30.09.1997**

Remarks:  
-----

**Recommendation Number: G.729**

Id Number: G729-24

Organization: **Nippon Telegraph and Telephone Corporation**  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Onsei no reisin singou hugouka-hukugouka-hou**

Patent Number: **3-167124 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **30.09.1997**

Remarks:  
-----

**Recommendation Number: G.729**

Id Number: G729-25

Organization: **Nokia**

Main Contact:

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Finland

Tel. No.: +358 10 505 4745

Fax. No.: +358 10 505 4275

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **4 969 192**

Patent Country: **United States**

Date Patent Statement Received: **07.01.1998**

Remarks:

-----

**Recommendation Number: G.729**

Id Number: G729-26

Organization: **NEC CORPORATION**

Main Contact: **Mr. Hideki Ogata, General Manager, Intellectual Property Division, Nec Corporation**

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Fax. No.: +81 3 3456 4903

E-mail: h-ogata@ce.jp.nec.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **1 740 692**

Patent Country: **Japan**

Date Patent Statement Received: **11.01.1998**

Remarks:  
-----



**Recommendation Number: G.729**

Id Number: G729-27

Organization: **NEC CORPORATION**

Main Contact: **Mr. Hideki Ogata, General Manager, Intellectual Property Division, Nec Corporation**

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Fax. No.: +81 3 3456 4903

E-mail: h-ogata@ce.jp.nec.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **1 740 693**

Patent Country: **Japan**

Date Patent Statement Received: **11.01.1998**

Remarks:  
-----

**Recommendation Number: G.729**

Id Number: G729-29

Organization: **NEC CORPORATION**

Main Contact: **Mr. Hideki Ogata, General Manager, Intellectual Property Division, Nec Corporation**

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E-mail: h-ogata@ce.jp.nec.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **4 716 592**

Patent Country: **United States**

Date Patent Statement Received: **11.01.1998**

Remarks:  
-----

**Recommendation Number: G.729**

Id Number: G729-30

Organization: **NEC CORPORATION**

Main Contact: **Mr. Hideki Ogata, General Manager, Intellectual Property Division, Nec Corporation**

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E-mail: h-ogata@ce.jp.nec.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **1 197 619**

Patent Country: **Canada**

Date Patent Statement Received: **11.01.1998**

Remarks:

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**Recommendation Number: G.729**

Id Number: G729-31

Organization: **BTG USA Inc**

Main Contact: **Associate Vice President**

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Gulph Mills, Pennsylvania 19406  
USA

Tel. No.: +1 610 278 1660

Fax. No.: +1 610 278 1605

E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in Canada)

Patent Title: **Vector excitation speech or audio coder for transmission of storage**

Patent Number: **4 868 867**

Patent Country: **United States**

Date Patent Statement Received: **24.03.1998**

Remarks: G.729 and Annex A

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**Recommendation Number: G.729**

Id Number: G729-32

Organization: **Université de Sherbrooke**

Main Contact: **Bureau de liaison entreprises-Université**

Address:

Sherbrooke J1K 2R1

Canada

Tel. No.: +1 819 821 7840

Fax. No.: +1 819 821 8215

E-mail:

Licensing declaration: Pat. pol. 2.2 (For C code in Annexes C, D and E)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.09.1998**

Remarks:

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**Recommendation Number: G.729**

Id Number: G729-33

Organization: **France Telecom/France Telecom Research and Development Center**

Main Contact: **Mr. Patrick Bonnier, Patents and Contracts Manager, Technology Transfert and Intellectual Property Dept.**

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92794 Issy-Les-Moulineux CEDEX 9  
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E-mail: patrick.bonnier@rd.francetelecom.fr

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.09.1998**

Remarks:

-----

**Recommendation Number: G.729**

Id Number: G729-34

Organization: **Hughes Electronicis Corporation**

Main Contact: **Mr. John T. Whelan, Legal**

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Tel. No.: +1 301 428 7172

Fax. No.: +1 301 428 2802

E-mail: jwhelan@hns.com

Licensing declaration: Pat. pol. 2.2; Concerns licensing of software copyrights of C code in Rec. G.729, Annexes D and E

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **22.09.1998**

Remarks:

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**Recommendation Number: G.729**

Id Number: G729-35

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Japan

Tel. No.: +81 3 3218 3465

Fax. No.: +81 3 3218 2474

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Speech decoder apparatus and speech encoder/decoder apparatus**

Patent Number: **2 659 605**

Patent Country: **Japan**

Date Patent Statement Received: **07.06.1999**

Remarks:

-----



**Recommendation Number: G.729**

Id Number: G729-36

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Tel. No.: +81 3 3218 3465

Fax. No.: +81 3 3218 2474

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Speech encoder apparatus and speech encoding method**

Patent Number: **2 905 155**

Patent Country: **Japan**

Date Patent Statement Received: **07.06.1999**

Remarks:

-----

**Recommendation Number: G.729**

Id Number: G729-37

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
Legal and Industry Relations Grp.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **2 084 950**

Patent Country: **Japan**

Date Patent Statement Received: **06.08.1999**

Remarks:

-----

**Recommendation Number: G.729**

Id Number: G729-38

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Japan

Tel. No.: +81 44 754 8641

Fax. No.: +81 44 754 8503

E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **1 665 593**

Patent Country: **Japan**

Date Patent Statement Received: **18.10.1999**

Remarks:  
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**Recommendation Number: G.729**

Id Number: G729-39

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
Legal and Industry Relations Grp.**

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Japan

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Fax. No.: +81 44 754 8503

E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Voice encoding and voice decoding apparatus**

Patent Number: **5 717 724**

Patent Country: **United States**

Date Patent Statement Received: **27.11.2000**

Remarks:  
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**Recommendation Number: G.729**

Id Number: G729-40

Organization: **Robert Bosch GmbH**  
Main Contact: **Mr. Gerhard Baer**  
Address: Werner Straße 1, Postfach 30 02 20  
70469 Stuttgart-Feuerbach  
Germany  
Tel. No.: +49 711 811 33140  
Fax. No.: +49 711 811 33182  
E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Denmark, Austria, EP(DE, CH, ES, FR, GB, IT, SE, NL, FI) Canada, US and Japan)

Patent Title: **Verfahren zur Aufbereitung von Daten, insbesondere für die Übertragung mit veränderlicher Kanalbitrate**

Patent Number: **61 41 781**

Patent Country: **United States**

Date Patent Statement Received: **06.12.2000**

Remarks:  
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**Recommendation Number: G.729**

Id Number: G729-41

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

Address: Room 2E37 - Bldg 2  
180 Park Ave, Florham Park, New Jersey 07932  
USA

Tel. No.: +1 973 236 6760

Fax. No.: +1 973 236 6452

E-mail: tfrost@att.com

Licensing declaration: Pat. pol. 2.2 (For Annex A. Under condition of reciprocity. Counterparts in CA, DE, FR, JP and SE)

Patent Title: **Digital Speech Coder**

Patent Number: **US RE 32.580**

Patent Country: **United States**

Date Patent Statement Received: **13.08.2001**

Remarks:  
-----

**Recommendation Number: G.729**

Id Number: G729-42

Organization: **Mindspeed Technologies Inc.**

Main Contact: **Legal Department**

Address: 4000 MacArthur Blvd E09-906, Newport Beach  
CA92660  
USA

Tel. No.: +1 949 579 3000

Fax. No.:

E-mail: ip.license@mindspeed.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Delayed decision switched prediction multi-stage LSF vector quantization**

Patent Number: **5 774 839**

Patent Country: **United States**

Date Patent Statement Received: **13.05.2003**

Remarks: This statement replaces that of G729-13.  
-----

**Recommendation Number: G.729**

Id Number: G729-43

Organization: **Mindspeed Technologies Inc.**

Main Contact: **Legal Department**

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CA92660  
USA

Tel. No.: +1 949 579 3000

Fax. No.:

E-mail: ip.license@mindspeed.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Signal compression using index mapping techniques for the sharing of quantization tables**

Patent Number: **5 920 853**

Patent Country: **United States**

Date Patent Statement Received: **13.05.2003**

Remarks: This statement replaces that of G729-13.

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**Recommendation Number: G.729**

Id Number: G729-44

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

Main Contact: **Mr. Koenraad M. Wuyts**

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2516 CK The Hague  
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Fax. No.: +31 70 446 0840

E-mail: k.wuyts@kpn.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US, Canada, Japan, Finland and Norway.)

Patent Title: **Method for coding an analog signal having a repetitive nature and a device for coding by said method**

Patent Number: **0475520**

Patent Country: **Europe**

Date Patent Statement Received: **20.01.2004**

Remarks:

**Received after the approval of the Recommendation in March 1996.**

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**Recommendation Number: G.755**

Id Number: G755-01

Organization: **ATT and Philips Telecommunications BV**

Main Contact:

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Tel. No.: +31 35 873 111

Fax. No.: +31 35 871 748

E-mail:

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number: **82 03110 (appl. no.)**

Patent Country: **Netherlands**

Date Patent Statement Received: **13.06.1985**

Remarks:

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**Recommendation Number: G.763**

Id Number: G763-01

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

Address: 2-2-3 Marunouchi, Chiyoda-ku

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Japan

Tel. No.: +81 3 3218 3465

Fax. No.: +81 3 3218 2474

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **21.05.1996**

Remarks:

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**Recommendation Number: G.766**

Id Number: G766-01

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Israel

Tel. No.: +972 3 926 8534

Fax. No.: +972 3 926 6876

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Licensing declaration: Pat. pol. 2.2 (European counterpart)

Patent Title:

Patent Number: **5 117 453**

Patent Country: **United States**

Date Patent Statement Received: **09.02.1995**

Remarks:

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**Recommendation Number: G.767**

Id Number: G767-01

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:  
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**Recommendation Number: G.769**

Id Number: G769-01

Organization: **KDDI Corporation**

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Fax. No.: +81 3 6678 0319

E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in USA.)

Patent Title: **Network interworking device for LAN/Internet**

Patent Number: **1999-122307 (Pub. No.)**

Patent Country: **Japan**

Date Patent Statement Received: **29.05.2002**

Remarks:  
-----

**Recommendation Number: G.769**

Id Number: G769-02

Organization: **Veraz Networks Ltd.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.01.2003**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

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**Recommendation Number: G.7712**

Id Number: G7712-01

Organization: **Nortel Networks Limited**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.05.2002**

Remarks:  
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**Recommendation Number: G.776.3**

Id Number: G776\_3-01

Organization: **ECI Telecom Ltd.**  
Main Contact: **Dr. Gil Ingel, Intellectual Property Department**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:  
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**Recommendation Number: G.781**

Id Number: G781-01

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
Legal and Industry Relations Grp.**

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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Synchronous method of synchronous ditital transmission network and  
transmission equipment for synchoronous ditktal transmission network**

Patent Number: **H5 50 42 24**

Patent Country: **Japan**

Date Patent Statement Received: **12.01.2004**

Remarks:

**Received after the apporval of the Recommendatin in July 1999.**

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**Recommendation Number: G.8011**

Id Number: G8011-01

Organization: **ECI Telecom Ltd.**  
Main Contact: **Dr. Gil Ingel, Intellectual Property Department**  
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Fax. No.: +972 3 926 6876  
E-mail: gil.ingel@ecitele.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method, equipment and system for signalling in a network including Ethernet**

Patent Number: **EP 124613 (appli.no.)**

Patent Country: **Israël**

Date Patent Statement Received: **14.09.2004**

Remarks:  
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**Recommendation Number: G.804**

Id Number: G804-01

Organization: **France Telecom R&D/VAT**

Main Contact: **Mr. François Jamet, Licensing and Technology Acquisition dept. Manager**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe, Korea, US, JP and WO. )

Patent Title: **Method for transporting variable length packet in temporal circuit frmes**

Patent Number: **FR 283 58 66**

Patent Country: **France**

Date Patent Statement Received: **03.05.2004**

Remarks:  
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**Recommendation Number: G.8080 Amd2**

Id Number: G8080\_Amd2-01

Organization: **Nortel Networks Limited**  
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Fax. No.: +1 972 684 3127  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.11.2004**

Remarks: This Recommendation has a double numbering of Y.1304 Amd2  
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**Recommendation Number: G.841**

Id Number: G841-01

Organization: **Lucent Technologies**  
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Fax. No.: +1 908 903 6329  
E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Distributed switching in bi-directional multiplex section-switched ring transmission systems**

Patent Number: **5 341 364**

Patent Country: **United States**

Date Patent Statement Received: **09.04.1996**

Remarks:  
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**Recommendation Number: G.841**

Id Number: G841-02

Organization: **Lucent Technologies**  
Main Contact: **Intellectual Property Department**  
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Tel. No.: +1 908 903 8037  
Fax. No.: +1 908 903 6329  
E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Apparatus and methods for preventing communications circuit  
misconnections in a bi-directional line-switched ring transmission system**

Patent Number: **5 442 620**

Patent Country: **United States**

Date Patent Statement Received: **09.04.1996**

Remarks:  
-----

**Recommendation Number: G.842**

Id Number: G842-01

Organization: **Lucent Technologies**  
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Fax. No.: +1 908 903 6329  
E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.04.1997**

Remarks:

-----



**Recommendation Number: G.872**

Id Number: G872-01

Organization: **ECI Telecom Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:  
-----

**Recommendation Number: G.872**

Id Number: G872-02

Organization: **Siemens Aktiengesellschaft**

Main Contact: **Mr. H. J. Muller, CT L&T Corporate technology, Licensing & Transactions**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for data transmission in the wavelength division multiplex method in an optical ring network**

Patent Number: **6 701 085**

Patent Country: **USA**

Date Patent Statement Received: **07.10.2004**

Remarks:

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**Recommendation Number: G.957**

Id Number: G957-01

Organization: **ECI Telecom Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:  
-----

**Recommendation Number: G.958**

Id Number: G958-01

Organization: **ECI Telecom Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

-----

**Recommendation Number: G.959.1**

Id Number: G959\_1-01

Organization: **Hitachi, Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Optical repeater and optical transmitter**

Patent Number: **5 875 046**

Patent Country: **United States**

Date Patent Statement Received: **01.06.1999**

Remarks:

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**Recommendation Number: G.959.1**

Id Number: G959\_1-02

Organization: **Hitachi, Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Optical multiplex transmission equipment**

Patent Number: **5 861 972**

Patent Country: **United States**

Date Patent Statement Received: **01.06.1999**

Remarks:  
-----

**Recommendation Number: G.959.1**

Id Number: G959\_1-03

Organization: **ECI Telecom Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

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**Recommendation Number: G.975.x**

Id Number: G975\_x-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.10.2003**

Remarks:  
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**Recommendation Number: G.975**

Id Number: G975-01

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Système de transmission d'information numériques sur une liaison optique à répéteurs à amplificateurs optiques**

Patent Number: **9202416**

Patent Country: **France**

Date Patent Statement Received: **21.01.1996**

Remarks:

-----

**Recommendation Number: G.975**

Id Number: G975-02

Organization: **Alcatel Submarine Networks (simply Alcatel)**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Système pour rétablir la qualité de transmission d'une liaison incluant des équipements amplificateurs, en cas de défaillance d'un ou de plusieurs de ces équipements amplificateurs**

Patent Number: **9303015**

Patent Country: **France**

Date Patent Statement Received: **21.01.1996**

Remarks:

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**Recommendation Number: G.977**

Id Number: G977-01

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 510 931**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
-----

**Recommendation Number: G.977**

Id Number: G977-02

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 526 163**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:

-----

**Recommendation Number: G.977**

Id Number: G977-03

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **08/400 762 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
-----

**Recommendation Number: G.977**

Id Number: G977-04

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 521 737**

Patent Country: **United States**

Date Patent Statement Received: **27.05.1996**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Sequence synchronization**

Patent Number: **5 237 593**

Patent Country: **United States**

Date Patent Statement Received: **22.09.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-02

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Sequence synchronization**

Patent Number: **5 321 754**

Patent Country: **United States**

Date Patent Statement Received: **22.09.1998**

Remarks:  
-----



**Recommendation Number: G.983.1**

Id Number: G983\_01-03

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **EPA 97401562.0 (appl. no.)**

Patent Country: **Europe**

Date Patent Statement Received: **28.04.1998**

Remarks:

-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-04

Organization: **Alcatel Alsthom (simply Alcatel)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Foreign counterparts in Canada, Finland, Japan, USA)

Patent Title:

Patent Number: **EPA 91201355.4 (appl. no.)**

Patent Country: **Europe**

Date Patent Statement Received: **28.04.1998**

Remarks:

-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-05

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Multiplexed signal transmission system**

Patent Number: **2 693 804**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-06

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Optical signal receiver**

Patent Number: **2-137651 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-07

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Hi-speed AGC circuit**

Patent Number: **2-225403 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-08

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Point-Multipoint signal transmission system**

Patent Number: **2-310251 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-09

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Optical signal transmission equipment**

Patent Number: **3-053281 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-10

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Phase synchronized clock extraction circuit**

Patent Number: **3-149720 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----



**Recommendation Number: G.983.1**

Id Number: G983\_01-11

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Multiplexed burst signal management system**

Patent Number: **4-102943 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-12

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Frame synchronization protection circuit**

Patent Number: **4-123943 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-13

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Multiplexed burst signal management system**

Patent Number: **4-140418 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-14

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Driving circuit for optical transmission device**

Patent Number: **4-174529 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-15

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Pre-amplifier circuit for photoelectric transducer**

Patent Number: **4-211339 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-16

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Optical signal transmission module**

Patent Number: **5-267491 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:

-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-17

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Motive equipment for point-multipoint signal transmission system**

Patent Number: **6-052022 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-18

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Reception level management equipment for point-multipoint signal transmission system**

Patent Number: **6-056079 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----



**Recommendation Number: G.983.1**

Id Number: G983\_01-19

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Dynamic polling system using burst signal transmission management memories**

Patent Number: **6-235404 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
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**Recommendation Number: G.983.1**

Id Number: G983\_01-20

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Delay measurement system**

Patent Number: **6-235423 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
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**Recommendation Number: G.983.1**

Id Number: G983\_01-21

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Optical signal receiver**

Patent Number: **6-272032 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
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**Recommendation Number: G.983.1**

Id Number: G983\_01-22

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Bandwidth allocation and modification method**

Patent Number: **6-287676 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-23

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Dynamic polling method using fixed cycle counter and memory**

Patent Number: **6-291077 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-24

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Dynamic polling management equipment**

Patent Number: **6-300460 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-25

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Multiplexed signal transmission system**

Patent Number: **6-329332 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-26

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Bit-synchronization circuit and system for the same**

Patent Number: **7-184447 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----



**Recommendation Number: G.983.1**

Id Number: G983\_01-27

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Phase synchronization circuit**

Patent Number: **7-202180 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-28

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Burst synchronization circuit**

Patent Number: **7-230243 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:

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**Recommendation Number: G.983.1**

Id Number: G983\_01-29

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Received phase synchronization circuit**

Patent Number: **7-275639 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-30

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Received phase regulation method**

Patent Number: **7-302565 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-31

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Data transmission and reception method for time-division multiplexed signal connection system and system for the same**

Patent Number: **7-320368 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-32

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Burst synchronization circuit**

Patent Number: **7-324442 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-33

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Optical intensity management equipment and optical signal sender**

Patent Number: **8-072787 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-34

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Automatic threshold management circuit and optical signal receiver**

Patent Number: **8-081077 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----



**Recommendation Number: G.983.1**

Id Number: G983\_01-35

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Optical signal sender for burst signal transmission**

Patent Number: **8-118001 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
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**Recommendation Number: G.983.1**

Id Number: G983\_01-36

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Time-slot allocation management method and equipments for the same**

Patent Number: **8-183634 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-37

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Alarm inhibition method and notification equipment for Alarm inhibition**

Patent Number: **8-203647 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-38

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Time-slot allocation management method and equipments for the same**

Patent Number: **8-254827 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-39

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **PDS transmission system**

Patent Number: **8-342196 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.11.1998**

Remarks:  
-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-40

Organization: **British Telecommunications, plc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Synchronisation of digital communications network**

Patent Number: **03 283 32B1**

Patent Country: **Europe**

Date Patent Statement Received: **04.03.2004**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-41

Organization: **British Telecommunications, plc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Communication system**

Patent Number: **33 761 9B1**

Patent Country: **Europe**

Date Patent Statement Received: **04.03.2004**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-42

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Time slot management method and a main station and substation realizing such a method**

Patent Number: **6 570 886**

Patent Country: **United States**

Date Patent Statement Received: **16.03.2004**

Remarks:

**Received after the approval of the Recommendation in October 1998.**

-----



**Recommendation Number: G.983.1**

Id Number: G983\_01-43

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Time slot management method and a main station and substation realizing such a method**

Patent Number: **2003-01 93 896 (appl.no.)**

Patent Country: **United States**

Date Patent Statement Received: **16.03.2004**

Remarks:

**Received after the approval of the Recommendation in October 1998.**

-----

**Recommendation Number: G.983.1**

Id Number: G983\_01-44

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **A time slot management method and apparatus**

Patent Number: **08 546 59**

Patent Country: **Europe**

Date Patent Statement Received: **16.03.2004**

Remarks:

**Received after the approval of the Recommendation in October 1998.**

-----

**Recommendation Number: G.983.4**

Id Number: G983\_04-01

Organization: **British Telecommunications, plc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Synchronisation of digital communications network**

Patent Number: **03 283 32B1**

Patent Country: **Europe**

Date Patent Statement Received: **04.03.2004**

Remarks:

**Received after the approval of the Recommendation in December 2003.**

-----

**Recommendation Number: G.983.4**

Id Number: G983\_04-02

Organization: **British Telecommunications, plc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Communication system**

Patent Number: **33 761 9B1**

Patent Country: **Europe**

Date Patent Statement Received: **04.03.2004**

Remarks:

**Received after the approval of the Recommendation in December 2003.**

-----

**Recommendation Number: G.983.4**

Id Number: G983\_04-03

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Time multiplexing and related arrangements to be used in a central station and network terminals of a communications network**

Patent Number: **6 463 075**

Patent Country: **United States**

Date Patent Statement Received: **16.03.2004**

Remarks:

**Received after the approval of the Recommendation in November 2001.**

-----

**Recommendation Number: G.983.4**

Id Number: G983\_04-04

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US, Australia, Japan and China)

Patent Title: **Time multiplexing method and related arrangements to be used in a central station and network terminals of a communications network**

Patent Number: **08 896 11**

Patent Country: **Europe**

Date Patent Statement Received: **16.03.2004**

Remarks:

**Received after the approval of the Recommendation in November 2001.**

-----

**Recommendation Number: G.983.10**

Id Number: G983\_10-01

Organization: **Siemens ICN**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **OMCI object model for managing ONUs with xDSL interfaces**

Patent Number:

Patent Country:

Date Patent Statement Received: **11.06.2004**

Remarks:

-----

**Recommendation Number: G.983.10**

Id Number: G983\_10-01

Organization: **Siemens ICN**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.03.2004**

Remarks:

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**Recommendation Number: G.983.1**

Id Number: G983\_1-45

Organization: **Siemens ICN**

Main Contact: **Mr. Terrence Brennan, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **FTP video return channel demodulator and modulator**

Patent Number:

Patent Country:

Date Patent Statement Received: **11.06.2004**

Remarks:

-----

**Recommendation Number: G.983.2**

Id Number: G983\_2-01

Organization: **Siemens ICN**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **FTP video return channel demodulator and modulator**

Patent Number:

Patent Country:

Date Patent Statement Received: **11.06.2004**

Remarks:

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**Recommendation Number: G.983.2**

Id Number: G983\_2-02

Organization: **Siemens ICN**

Main Contact: **Mr. Terrence Brennan, Intellectual Property Department**

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E-mail: [terrence.brennan@siemens.com](mailto:terrence.brennan@siemens.com)

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **OMCI object model for managing ONUs with xDSL interfaces**

Patent Number:

Patent Country:

Date Patent Statement Received: **11.06.2004**

Remarks:

-----

**Recommendation Number: G.983.4**

Id Number: G983\_4-05

Organization: **Alcatel**  
Main Contact: **Mr. Ulrich Knecht, intellectual Property Group**  
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92734 Nanterre  
France  
Tel. No.: +33 1 4652 4622  
Fax. No.: +33 1 4652 4396  
E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe and Japan.)

Patent Title: **Method to assign upstream timeslots to a network terminal and medium access controller for performing such a method**

Patent Number: **09 30 49 84 (appl. No.)**

Patent Country: **United States**

Date Patent Statement Received: **16.03.2004**

Remarks:

**Received after the approval of the Recommendation in November 2001.**

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**Recommendation Number: G.984.1**

Id Number: G984\_03-02

Organization: **Alcatel**  
Main Contact: **Mr. Ulrich Knecht, intellectual Property Group**  
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Tel. No.: +33 1 4652 4622  
Fax. No.: +33 1 4652 4396  
E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Verfahren zum Übertragen von Binarinformationen in cinem optischen Übertragungsnetzwerk sowie optisches Übertragungsnetzwerk**

Patent Number: **42 54 70**

Patent Country: **Europe**

Date Patent Statement Received: **16.03.2004**

Remarks:  
-----

**Recommendation Number: G.984.1**

Id Number: G984\_03-03

Organization: **Alcatel**

Main Contact: **Mr. Ulrich Knecht, intellectual Property Group**

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Fax. No.: +33 1 4652 4396

E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in US.)

Patent Title: **Time slot management system**

Patent Number: **54 4975**

Patent Country: **Europe**

Date Patent Statement Received: **16.03.2004**

Remarks:  
-----

**Recommendation Number: G.984.1**

Id Number: G984\_3-01

Organization: **Alcatel**

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Fax. No.: +33 1 4652 4396

E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in Japan.)

Patent Title: **Optical subscriber network**

Patent Number: **5 107 361**

Patent Country: **United States**

Date Patent Statement Received: **16.03.2004**

Remarks:

-----

**Recommendation Number: G.984.4**

Id Number: G984\_4-01

Organization: **Siemens ICN**

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E-mail: terrence.brennan@siemens.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **FTP video return channel demodulator and modulator**

Patent Number:

Patent Country:

Date Patent Statement Received: **11.06.2004**

Remarks:

-----



**Recommendation Number: G.984.4**

Id Number: G984\_4-02

Organization: **Siemens ICN**

Main Contact: **Mr. Terrence Brennan, Intellectual Property Department**

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E-mail: [terrence.brennan@siemens.com](mailto:terrence.brennan@siemens.com)

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **OMCI object model for managing ONUs with xDSL interfaces**

Patent Number:

Patent Country:

Date Patent Statement Received: **11.06.2004**

Remarks:

-----

**Recommendation Number: G.989.1**

Id Number: G989\_1-01

Organization: **Broadcom HomeNetworking, Inc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.08.2000**

Remarks:  
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**Recommendation Number: G.989.2**

Id Number: G989\_2-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.11.2001**

Remarks:

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**Recommendation Number: G.989.3**

Id Number: G989\_3-01

Organization: **Intel Corporation**

Main Contact: **General Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.04.2003**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

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**Recommendation Number: G.991.1**

Id Number: G991\_1-02

Organization: **Racal Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **4 434 322**

Patent Country: **United States**

Date Patent Statement Received: **02.03.1998**

Remarks:  
-----

**Recommendation Number: G.991.1**

Id Number: G991\_1-03

Organization: **Racal Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **4 760 598**

Patent Country: **United States**

Date Patent Statement Received: **02.03.1998**

Remarks:  
-----

**Recommendation Number: G.991.1**

Id Number: G991\_1-04

Organization: **Stanford University**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.03.1998**

Remarks:  
-----

**Recommendation Number: G.991.1**

Id Number: G991\_1-05

Organization: **Cisco Systems Inc**  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.05.1998**

Remarks:

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**Recommendation Number: G.991.1**

Id Number: G991\_1-06

Organization: **GlobeSpan Semiconductor, Inc.**  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.08.1998**

Remarks:

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**Recommendation Number: G.991.1**

Id Number: G991\_1-07

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

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**Recommendation Number: G.991.1**

Id Number: G991\_1-08

Organization: **Nokia Corporation**  
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Fax. No.: +358 7180 34496  
E-mail: harri.honkasalo@nokia.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Finland, Hong Kong Australia.)

Patent Title: **Method for connecting an HDSL transmission link to an SDH network**

Patent Number: **EP 96080**

Patent Country: **Europe**

Date Patent Statement Received: **11.06.2004**

Remarks:  
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**Recommendation Number: G.991.2**

Id Number: G991\_2-01

Organization: **Alcatel CIT (simply Alcatel)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.06.1999**

Remarks:

-----

**Recommendation Number: G.991.2**

Id Number: G991\_2-02

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.06.1999**

Remarks:

-----

**Recommendation Number: G.991.2**

Id Number: G991\_2-03

Organization: **ECI Telecom Ltd.**  
Main Contact: **Dr. Gil Ingel, Intellectual Property Department**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:  
-----

**Recommendation Number: G.991.2**

Id Number: G991\_2-04

Organization: **Paradyne Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.03.2000**

Remarks:  
-----

**Recommendation Number: G.991.2**

Id Number: G991\_2-05

Organization: **Conexant Systems, Inc**  
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Newport Beach, CA 92660-3095  
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Tel. No.: +1 949 483 4600  
Fax. No.:  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.08.2000**

Remarks:  
-----



**Recommendation Number: G.991.2**

Id Number: G991\_2-06

Organization: **Tioga Technologies**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **24.01.2001**

Remarks:

-----

**Recommendation Number: G.991**

Id Number: G991\_2-07

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.02.2001**

Remarks:

-----

**Recommendation Number: G.991.2**

Id Number: G991\_2-08

Organization: **GlobeSpan Semiconductor, Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.02.2001**

Remarks:

-----

**Recommendation Number: G.991.2**

Id Number: G991\_2-09

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.02.2001**

Remarks:

-----

**Recommendation Number: G.991.2**

Id Number: G991\_2-10

Organization: **Infineon Technologies AG**

Main Contact: **Mr. Michael Platzoeder, Senior Director, Intellectual Property and Cooperations, COM IP & CO**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.06.2001**

Remarks:

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**Recommendation Number: G.992.1 Amd.1**

Id Number: G992\_1\_Amd1-01

Organization: **Intel Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.04.2003**

Remarks:  
-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-01

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.01.1998**

Remarks:

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-02

Organization: **Racal Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **4 434 322**

Patent Country: **United States**

Date Patent Statement Received: **02.03.1998**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-03

Organization: **Racal Corporation**  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **4 760 598**

Patent Country: **United States**

Date Patent Statement Received: **02.03.1998**

Remarks:  
-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-05

Organization: **Cisco Systems Inc**  
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San Jose, California 95134-1706  
USA  
Tel. No.: +1 408 525 9706  
Fax. No.: +1 408 525 1003  
E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.05.1998**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-06

Organization: **Texas Instruments**  
Main Contact: **Ms. Earle Thompson**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Programmable Viterbi signal processor**

Patent Number: **5 220 570**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-07

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for echo cancellation with discrete multitone modulation**

Patent Number: **5 317 596**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-08

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for adaptive variable bandwidth optimization in high-speed data transmission of a multicarrier signal over digital subscriber lines**

Patent Number: **5 479 447**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-09

Organization: **Texas Instruments**  
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E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for equalizing a multicarrier signal in a multicarrier communication system**

Patent Number: **5 285 474**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-10

Organization: **PC-TEL Inc**

Main Contact: **Mr. Han Yeh, VP Technology, PC-TEL Inc.**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.08.1998**

Remarks:

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-11

Organization: **Centillium Communications, Inc.**

Main Contact: **John Luhtala, Vice President, Finance & Chief Financial Officer**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.08.1998**

Remarks:

-----



**Recommendation Number: G.992.1**

Id Number: G992\_1-12

Organization: **Alcatel Alsthom (simply Alcatel)**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.06.1998**

Remarks:

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-13

Organization: **Paradyne Corporation**

Main Contact: **Intellectual Property Director**

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Licensing declaration: Pat. pol. 2.2 (under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.08.1998**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-14

Organization: **GlobeSpan Semiconductor, Inc.**  
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Fax. No.: +1 732 345 7598  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.08.1998**

Remarks:  
-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-15

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.09.1998**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-16

Organization: **Matsushita Graphic Communication Systems, Inc.**

Main Contact: **Mr. Toshio Yoshida, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.09.1998**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-17

Organization: **AltoCom Inc.**  
Main Contact: **Vice President/Chief Scientist**  
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Mountain View, California 94041  
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Fax. No.: +1 650 691 4503  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.09.1998**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-18

Organization: **Bell Atlantic Network Services, Inc.**  
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Arlington, Virginia 22201  
USA  
Tel. No.: +1 703 974 3946  
Fax. No.: +1 703 974 0616  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Variable rate and variable mode transmission system**

Patent Number: **5 812 786**

Patent Country: **United States**

Date Patent Statement Received: **05.10.1998**

Remarks:  
-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-19

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Fax. No.: +81 44 754 8503

E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Signal quality detection method**

Patent Number: **1 218 429**

Patent Country: **Japan**

Date Patent Statement Received: **28.09.1998**

Remarks:  
-----



**Recommendation Number: G.992.1**

Id Number: G992\_1-20

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital subscriber line transmission method**

Patent Number: **H10-135 725 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **28.09.1998**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-21

Organization: **Fujitsu Ltd.**

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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital subscriber line transmission system**

Patent Number: **H10-144 913 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **28.09.1998**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-22

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Apparatus for digital subscriber line transmission system**

Patent Number: **H10-172 464 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **28.09.1998**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-23

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for restraint of transfer delay in digital subscriber line transmission  
system**

Patent Number: **H10-183 518 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **28.09.1998**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-24

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Tel. No.: +81 3 3218 3465

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Transmission Equipment and method to avoid the interface**

Patent Number: **H11-118 011 (appl.no.)**

Patent Country: **Japan**

Date Patent Statement Received: **18.06.1999**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-25

Organization: **AMD**

Main Contact: **Vice President and General Manager, Communication Products Division**

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Tel. No.: +1 512 385 8542

Fax. No.: +1 512 602 5400

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.10.1998**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-26

Organization: **Sasken Communicaion Technologies**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.10.1998**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-27

Organization: **Motorola**

Main Contact: **Corporate Vice President and General Manager, Communication  
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Fax. No.: +1 512 933 5505

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **28.09.1998**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-28

Organization: **Sumitomo Electric Industries Ltd**

Main Contact: **Mr. Minoru Wanatabe, General Manager, Intellectual Property Department**

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Fax. No.: +81 6 6466 7960

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.10.1998**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-30

Organization: **NEC CORPORATION**

Main Contact: **Mr. Hideki Ogata, General Manager, Intellectual Property Division, Nec Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **25.08.1998**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-31

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Japan

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital transmission equipment**

Patent Number: **H10-180174 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **18.01.1999**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-32

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Equipment and method of transmission**

Patent Number: **H10-309571 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **18.01.1999**

Remarks:

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-33

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Equipment and method of transmission**

Patent Number: **H10-286195 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **18.01.1999**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-34

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Equipment and method of transmission**

Patent Number: **H10-308586 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **18.01.1999**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-35

Organization: **VoCAL Technologies Ltd**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.03.1999**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-36

Organization: **Intel Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-37

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Refers to Annex C of Rec.)

Patent Title: **Method and apparatus for detection of periodical noise duration in digital  
subscriber line transmission system**

Patent Number: **H10-325 711 (appl.no.)**

Patent Country: **Japan**

Date Patent Statement Received: **25.06.1999**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-38

Organization: **ECI Telecom Ltd.**  
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E-mail: gil.ingel@ecitele.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-39

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (For Annex H. Under condition of reciprocity. Counterparts in UK, Denmark, France and US),

Patent Title: **Method and apparatus for Digital Subscriber Line Transmission System**

Patent Number: **PCT/JP99/02673**

Patent Country: **Japan**

Date Patent Statement Received: **19.04.2000**

Remarks:  
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**Recommendation Number: G.992.1**

Id Number: G992\_1-40

Organization: **Aware, Inc.**  
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Fax. No.: +1 781 687 0460  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.09.2000**

Remarks:  
-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-41

Organization: **Sumitomo Electric Industries Ltd**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in USA and Taiwan.)

Patent Title: **Communication apparatus**

Patent Number: **03078262**

Patent Country: **Japan**

Date Patent Statement Received: **26.09.2001**

Remarks:

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**Recommendation Number: G.992.1**

Id Number: G992\_1-42

Organization: **France Telecom R&D/VAT**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Denmark and UK.)

Patent Title: **Apparatus for the transmission of digital data with at least two levels of protection, and corresponding receiver**

Patent Number: **FR 26 60 131**

Patent Country: **France**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-43

Organization: **France Telecom R&D/VAT**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity).

Patent Title: **Device for the transmission of digital data with at least two levels of protection and corresponding reception device**

Patent Number: **51 97 061**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-44

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity).

Patent Title: **Device for the transmission of digital data with at least two levels of protection and corresponding reception device**

Patent Number: **36430**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

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**Recommendation Number: G.992.1**

Id Number: G992\_1-45

Organization: **Alcatel**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in US and IL.)

Patent Title: **Method for interleaving data frames, forward error correcting device and modulator including such a device**

Patent Number: **75 96 65**

Patent Country: **Europe**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-46

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for interleaving data bytes**

Patent Number: **5 907 560**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-47

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Clock signal transport on ADSL**

Patent Number: **732 219**

Patent Country: **Australia**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-48

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in IL, Japan and US.)

Patent Title: **Method to transparently transport an incoming clock signal over a network segment, and related transmitter and receiver unit**

Patent Number: **84 17 67**

Patent Country: **Europe**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the apporval of the Recommendatin in July 1999.**

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**Recommendation Number: G.992.1**

Id Number: G992\_1-49

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method to transparently transport an incoming clock signal over a network segment, and related transmitter and receiver unit**

Patent Number: **09/90 65 31**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

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**Recommendation Number: G.992.1**

Id Number: G992\_1-50

Organization: **Alcatel**  
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Fax. No.: +33 1 4652 4396  
E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method to transparently transport an incoming clock signal over a network segment, and related transmitter and receiver unit**

Patent Number: **902 577-1-3 (appl.no.)**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

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**Recommendation Number: G.992.1**

Id Number: G992\_1-51

Organization: **Alcatel**  
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Fax. No.: +33 1 4652 4396  
E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method to transparently transport an incoming clock signal over a network segment, and related transmitter and receiver unit**

Patent Number: **6 327 273**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

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**Recommendation Number: G.992.1**

Id Number: G992\_1-52

Organization: **Alcatel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method of synchronizing data**

Patent Number: **734 451**

Patent Country: **Australia**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

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**Recommendation Number: G.992.1**

Id Number: G992\_1-53

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in IL and Japan.)

Patent Title: **Method to synchronise dart transmission between a receiver and a transmitter**

Patent Number: **84 17 66**

Patent Country: **Europe**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-54

Organization: **Alcatel**  
Main Contact: **Mr. Ulrich Knecht, intellectual Property Group**  
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Fax. No.: +33 1 4652 4396  
E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **A method to synchronise data and a transmitter and a receiver realising said method**

Patent Number: **09/28 04 35 (appl.no.)**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-55

Organization: **Alcatel**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **A method to synchronise data and a transmitter and a receiver realising said method**

Patent Number: **60/05 21 26 (appl.no.)**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-56

Organization: **Alcatel**  
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Fax. No.: +33 1 4652 4396  
E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method to synchronize data and a transmitter and a receiver realizing said method**

Patent Number: **5 903 612**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-57

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Fax. No.: +33 1 4652 4396  
E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **A method to synchronise data and a transmitter and a receiver realising said method**

Patent Number: **2003-01 940 35- A1 (appl.no.)**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-58

Organization: **Alcatel**  
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E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Initialisation protocol for data rates**

Patent Number: **720 494**

Patent Country: **Australia**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

-----

**Recommendation Number: G.992.1**

Id Number: G992\_1-59

Organization: **Alcatel**  
Main Contact: **Mr. Ulrich Knecht, intellectual Property Group**  
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92734 Nanterre  
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Fax. No.: +33 1 4652 4396  
E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US, IL and Japan.)

Patent Title: **Initialisation protocol for adaptive data rates**

Patent Number: **84 17 71**

Patent Country: **Europe**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 1999.**

-----

**Recommendation Number: G.992.2 Amd.1**

Id Number: G992\_2\_Amd1-01

Organization: **Intel Corporation**

Main Contact: **General Counsel**

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Santa Clara, CA 95052-8119  
USA

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.04.2003**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

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**Recommendation Number: G.992.2**

Id Number: G992\_2-01

Organization: **Racal Corporation**  
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Sunrise, Florida 33323-2899  
USA  
Tel. No.: +1 954 846 5134  
Fax. No.: +1 954 846 5026  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **4 434 322**

Patent Country: **United States**

Date Patent Statement Received: **02.03.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-02

Organization: **Racal Corporation**  
Main Contact: **Chief Patent Counsel, Law Department**  
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Sunrise, Florida 33323-2899  
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Tel. No.: +1 954 846 5134  
Fax. No.: +1 954 846 5026  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **4 760 598**

Patent Country: **United States**

Date Patent Statement Received: **02.03.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-03

Organization: **Cisco Systems Inc**  
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San Jose, California 95134-1706  
USA  
Tel. No.: +1 408 525 9706  
Fax. No.: +1 408 525 1003  
E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.05.1998**

Remarks:

-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-04

Organization: **Texas Instruments**  
Main Contact: **Ms. Earle Thompson**  
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USA  
Tel. No.: +1 972 917 4436  
Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Programmable Viterbi signal processor**

Patent Number: **5 220 570**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
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**Recommendation Number: G.992.2**

Id Number: G992\_2-05

Organization: **Texas Instruments**  
Main Contact: **Ms. Earle Thompson**  
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E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for echo cancellation with discrete multitone modulation**

Patent Number: **5 317 596**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-06

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for adaptive variable bandwidth optimization in high-speed data transmission of a multicarrier signal over digital subscriber lines**

Patent Number: **5 479 447**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-07

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for equalizing a multicarrier signal in a multicarrier communication system**

Patent Number: **5 285 474**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-08

Organization: **PC-TEL Inc**

Main Contact: **Mr. Han Yeh, VP Technology, PC-TEL Inc.**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.08.1998**

Remarks:  
-----



**Recommendation Number: G.992.2**

Id Number: G992\_2-09

Organization: **Centillium Communications, Inc.**

Main Contact: **John Luhtala, Vice President, Finance & Chief Financial Officer**

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Tel. No.: +1 510 771 3700

Fax. No.: +1 510 771 3500

E-mail: luhtala@centillium.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.08.1998**

Remarks:

-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-10

Organization: **Alcatel Alsthom (simply Alcatel)**

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E-mail: [bernard.lamoureux@alcatel.fr](mailto:bernard.lamoureux@alcatel.fr)

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.06.1998**

Remarks:

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**Recommendation Number: G.992.2**

Id Number: G992\_2-11

Organization: **Paradyne Corporation**

Main Contact: **Intellectual Property Director**

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Fax. No.: +1 813 532 5949

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.08.1998**

Remarks:

-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-12

Organization: **Conexant Systems, Inc**  
Main Contact: **Legal department**  
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Tel. No.: +1 949 483 4600  
Fax. No.:  
E-mail: ip.license@mindspeed.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **21.08.1998**

Remarks: Informed from Conexant on 14 April 2003 that due to changes in corporate ownership, the patent statement previously made under the name of the Rockwell Corporation is changed to Conexant.

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**Recommendation Number: G.992.2**

Id Number: G992\_2-13

Organization: **GlobeSpan Semiconductor, Inc.**  
Main Contact: **Manager - Standards Development**  
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Red Bank, New Jersey 07701  
USA  
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Fax. No.: +1 732 345 7598  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.08.1998**

Remarks:

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**Recommendation Number: G.992.2**

Id Number: G992\_2-14

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.09.1998**

Remarks:

-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-15

Organization: **Matsushita Graphic Communication Systems, Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.09.1998**

Remarks:

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**Recommendation Number: G.992.2**

Id Number: G992\_2-16

Organization: **AltoCom Inc.**

Main Contact: **Vice President/Chief Scientist**

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Mountain View, California 94041  
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Fax. No.: +1 650 691 4503

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.09.1998**

Remarks:  
-----



**Recommendation Number: G.992.2**

Id Number: G992\_2-17

Organization: **Bell Atlantic Network Services, Inc.**  
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Tel. No.: +1 703 974 3946  
Fax. No.: +1 703 974 0616  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Variable rate and variable mode transmission system**

Patent Number: **5 812 786**

Patent Country: **United States**

Date Patent Statement Received: **05.10.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-18

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Signal quality detection method**

Patent Number: **1 218 429**

Patent Country: **Japan**

Date Patent Statement Received: **28.09.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-19

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital subscriber line transmission method**

Patent Number: **H10-135 725 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **28.09.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-20

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital subscriber line transmission system**

Patent Number: **H10-144 913 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **28.09.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-21

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Apparatus for digital subscriber line transmission system**

Patent Number: **H10-172 464 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **28.09.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-22

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for restraint of transfer delay in digital subscriber line transmission  
system**

Patent Number: **H10-183 518 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **28.09.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-23

Organization: **Mitsubishi Electric Corp.**

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Japan

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Transmission Equipment and method to avoid the interface**

Patent Number: **H11-118 011 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **18.06.1999**

Remarks:

-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-24

Organization: **AMD**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.10.1998**

Remarks:

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**Recommendation Number: G.992.2**

Id Number: G992\_2-25

Organization: **Sasken Communicaion Technologies**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.10.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-26

Organization: **Motorola**

Main Contact: **Corporate Vice President and General Manager, Communication  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **28.09.1998**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-27

Organization: **Sumitomo Electric Industries Ltd**

Main Contact: **Mr. Minoru Wanatabe, General Manager, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.10.1998**

Remarks:

-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-28

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Fax. No.: +81 3 3218 2474

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital transmission equipment**

Patent Number: **H10-180174 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **18.01.1999**

Remarks:

-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-29

Organization: **VoCAL Technologies Ltd**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.03.1999**

Remarks:

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**Recommendation Number: G.992.2**

Id Number: G992\_2-30

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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UUSA

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E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-31

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division, Legal and Industry Relations Grp.**

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Fax. No.: +81 44 754 8503

E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Refers to Annex C of Rec.)

Patent Title: **Method and apparatus for detection of periodical noise duration in digital subscriber line transmission system**

Patent Number: **H10-325 711 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **25.06.1999**

Remarks:  
-----

**Recommendation Number: G.992.2**

Id Number: G992\_2-32

Organization: **Aware, Inc.**  
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Tel. No.: +1 781 687 0335  
Fax. No.: +1 781 687 0460  
E-mail: krussell@aware.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.09.2000**

Remarks:  
-----



**Recommendation Number: G.992.2**

Id Number: G992\_2-33

Organization: **Sumitomo Electric Industries Ltd**

Main Contact: **Mr. Minoru Wanatabe, General Manager, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in USA and Taiwan.)

Patent Title: **Communication apparatus**

Patent Number: **03078262**

Patent Country: **Japan**

Date Patent Statement Received: **26.09.2001**

Remarks:

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**Recommendation Number: G.992.3 Amd.1**

Id Number: G992\_3\_Amd1-01

Organization: **Intel Corporation**

Main Contact: **General Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.04.2003**

Remarks:  
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**Recommendation Number: G.992.3 Amd.1**

Id Number: G992\_3\_Amd1-02

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US, Australia, China and Japan.)

Patent Title: **Power conservation for pots and modulated data transmission**

Patent Number: **EP 1005755**

Patent Country: **Europe**

Date Patent Statement Received: **05.05.2003**

Remarks:  
-----

**Recommendation Number: G.992.3**

Id Number: G992\_3\_Amd3,4-01

Organization: **Nokia Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US, Australia, China and Japan.)

Patent Title: **Power conversation for pots and modulated data transmission**

Patent Number: **EP 1005755**

Patent Country: **Europe**

Date Patent Statement Received: **11.06.2004**

Remarks:  
-----

**Recommendation Number: G.992.3**

Id Number: G992\_3-01

Organization: **Tioga Technologies**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.10.2001**

Remarks:  
-----

**Recommendation Number: G.992.3**

Id Number: G992\_3-02

Organization: **Aware, Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.10.2001**

Remarks:

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**Recommendation Number: G.992.3**

Id Number: G992\_3-03

Organization: **Catena Networks, Inc.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.05.2002**

Remarks:

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**Recommendation Number: G.992.3**

Id Number: G992\_3-04

Organization: **Motorola Inc.**

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Fax. No.: +1 847 576 8378

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.07.2002**

Remarks:  
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**Recommendation Number: G.992.3**

Id Number: G992\_3-05

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.10.2003**

Remarks:

Received after the approval of the Recommendation in July 2002.

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**Recommendation Number: G.992.3**

Id Number: G992\_3-06

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.10.2003**

Remarks:

**Received after the apporval of the Recommendatin in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-07

Organization: **France Telecom R&D/VAT**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Denmark and UK.)

Patent Title: **Apparatus for the transmission of digital data with at least two levels of protection and corresponding receiver**

Patent Number: **26 601 31**

Patent Country: **France**

Date Patent Statement Received: **03.05.2004**

Remarks:  
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**Recommendation Number: G.992.3**

Id Number: G992\_3-08

Organization: **France Telecom R&D/VAT**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Device for the transmission of digital data with at least two levels of protection and corresponding reception device**

Patent Number: **51 97 061**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:  
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**Recommendation Number: G.992.3**

Id Number: G992\_3-09

Organization: **France Telecom R&D/VAT**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **USRE36430**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

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**Recommendation Number: G.992.3**

Id Number: G992\_3-10

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Clock signal transport on ADSL**

Patent Number: **732 219**

Patent Country: **Australia**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-11

Organization: **Alcatel**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in IL, Japan and US.)

Patent Title: **Method to transparently transport an incoming clock signal over a network segment, and related transmitter and receiver unit**

Patent Number: **84 17 67**

Patent Country: **Europe**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the apporval of the Recommendatin in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-12

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method to transparently transport an incoming clock signal over a network segment, and related transmitter and receiver unit**

Patent Number: **09/90 65 31 (appl.no.)**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-13

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E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method to transparently transport an incoming clock signal over a network segment, and related transmitter and receiver unit**

Patent Number: **902 577-1-3 (appl.no.)**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-14

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method to transparently transport an incoming clock signal over a network segment, and related transmitter and receiver unit**

Patent Number: **6 327 273**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-15

Organization: **Alcatel**  
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E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Modulation/demodulation of a pilot carrier, and means to perform the modulation/demodulation**

Patent Number: **6 370 156**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-16

Organization: **Alcatel**  
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E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Modulation of a pilot carrier and means to perform this modulation**

Patent Number: **2002-01 18 658-A1**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-17

Organization: **Alcatel**  
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E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in IL and Europe.)

Patent Title: **Multi-carrier telecommunication system with power adaptation means**

Patent Number: **6 246 725**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-18

Organization: **Alcatel**  
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E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in US.)

Patent Title: **Method for bit error rate measurements in a cellbased telecommunication system**

Patent Number: **6 693 881**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-19

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E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US and Japan.)

Patent Title: **Modem and method for connecting modems in parallel to a network**

Patent Number: **12 98 907 (appl.no.)**

Patent Country: **Europe**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-20

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Fax. No.: +33 1 4652 4396  
E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Capacity allocation for OFDM**

Patent Number: **75 39 48 (appl.no.)**

Patent Country: **Europe**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-21

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Fax. No.: +33 1 4652 4396  
E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for allocating data elements to a set of carriers, mapping unit and modulator to perform this method**

Patent Number: **5 790 550**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

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**Recommendation Number: G.992.3**

Id Number: G992\_3-22

Organization: **Alcatel**  
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E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada and US.)

Patent Title: **Method and arrangement to estimate transmission channel characteristics**

Patent Number: **10 41 731 (appl.no.)**

Patent Country: **Europe**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

-----

**Recommendation Number: G.992.3**

Id Number: G992\_3-23

Organization: **Alcatel**  
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E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and arrangement to estimate transmission channel characteristics**

Patent Number: **6 606 719**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

-----

**Recommendation Number: G.992.3**

Id Number: G992\_3-24

Organization: **Aware, Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.04.2004**

Remarks:  
-----

**Recommendation Number: G.992.3**

Id Number: G992\_3-25

Organization: **Aware, Inc.**  
Main Contact: **Mr. Kevin Russell**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.01.2005**

Remarks:  
-----

**Recommendation Number: G.992.4**

Id Number: G992\_4-01

Organization: **Tioga Technologies**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.10.2001**

Remarks:

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**Recommendation Number: G992.4**

Id Number: G992\_4-02

Organization: **Aware, Inc.**  
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E-mail: krussell@aware.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.10.2001**

Remarks:  
-----

**Recommendation Number: G.992.4**

Id Number: G992\_4-03

Organization: **Catena Networks, Inc.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.05.2002**

Remarks:

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**Recommendation Number: G.992.4**

Id Number: G992\_4-04

Organization: **Motorola Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.07.2002**

Remarks:

-----

**Recommendation Number: G.992.4**

Id Number: G992\_4-05

Organization: **Nokia Corporation**  
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Fax. No.: +358 7180 34496  
E-mail: harri.honkasalo@nokia.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US, Australia, China and Japan.)

Patent Title: **Power conversation for pots and modulated data transmission**

Patent Number: **EP 1005755**

Patent Country: **Europe**

Date Patent Statement Received: **05.05.2003**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

-----

**Recommendation Number: G.992.4**

Id Number: G992\_4-06

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.10.2003**

Remarks:

**Received after the apporval of the Recommendatin in July 2002.**

-----

**Recommendation Number: G.992.4**

Id Number: G992\_4-07

Organization: **France Telecom R&D/VAT**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Germany, the United Kingdom and the United States)

Patent Title: **Apparatus for the transmission of digital data with at least two levels of protection, and corresponding receiver**

Patent Number: **2660131**

Patent Country: **France**

Date Patent Statement Received: **08.09.2004**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

-----

**Recommendation Number: G.992.5**

Id Number: G992\_5-01

Organization: **Aware, Inc.**  
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Fax. No.: +1 781 687 0460  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.01.2003**

Remarks:  
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**Recommendation Number: G.992.5**

Id Number: G992\_5-02

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **06.03.2003**

Remarks:  
-----

**Recommendation Number: G.992.5**

Id Number: G992\_5-03

Organization: **Intel Corporation**

Main Contact: **General Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.04.2003**

Remarks:  
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**Recommendation Number: G992.5**

Id Number: G992\_5-04

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital subscriber line transmission system**

Patent Number: **H11-341153 (publication No. )**

Patent Country: **Japan**

Date Patent Statement Received: **20.10.2003**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

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**Recommendation Number: G992.5**

Id Number: G992\_5-05

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital subscriber line transmission system**

Patent Number: **2003 115814( publication No. )**

Patent Country: **Japan**

Date Patent Statement Received: **20.10.2003**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

-----

**Recommendation Number: G992.5**

Id Number: G992\_5-06

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital subscriber line transmission method and apparatus for the central office  
and the remote end**

Patent Number: **2003 163648 (publication No. )**

Patent Country: **Japan**

Date Patent Statement Received: **20.10.2003**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

-----

**Recommendation Number: G992.5**

Id Number: G992\_5-07

Organization: **Fujitsu Ltd.**

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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital subscriber line transmission method and apparatus for xDSL**

Patent Number: **3449373**

Patent Country: **Japan**

Date Patent Statement Received: **20.10.2003**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

-----

**Recommendation Number: G992.5**

Id Number: G992\_5-08

Organization: **Fujitsu Ltd.**

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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital subscriber line transmission method and apparatus for xDSL**

Patent Number: **2003 35974 ( appl. No. )**

Patent Country: **Japan**

Date Patent Statement Received: **20.10.2003**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

-----

**Recommendation Number: G992.5**

Id Number: G992\_5-09

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Japan

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Fax. No.: +81 44 754 8503

E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital subscriber line transmission system**

Patent Number: **2003 35973 ( appl. No. )**

Patent Country: **Japan**

Date Patent Statement Received: **20.10.2003**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

-----

**Recommendation Number: G992.5**

Id Number: G992\_5-10

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital subscriber line transmission method and apparatus for xDSL**

Patent Number: **2003 35972 ( appl. No. )**

Patent Country: **Japan**

Date Patent Statement Received: **20.10.2003**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

-----

**Recommendation Number: G992.5**

Id Number: G992\_5-11

Organization: **Fujitsu Ltd.**

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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Apparatus for ditital subscriber line transmission system**

Patent Number: **2000 13520 (publication No. )**

Patent Country: **Japan**

Date Patent Statement Received: **20.10.2003**

Remarks:

**Received after the apporval of the Recommendatin in March 2003.**

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**Recommendation Number: G992.5**

Id Number: G992\_5-12

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Fax. No.: +81 44 754 8503

E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for detection of periodical noise duration in digital  
subscriber line transmission system**

Patent Number: **200 151742 ( publication. No. )**

Patent Country: **Japan**

Date Patent Statement Received: **20.10.2003**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

-----



**Recommendation Number: G.992.5**

Id Number: G992\_5-13

Organization: **Aware, Inc.**  
Main Contact: **Mr. Kevin Russell**  
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Fax. No.: +1 781 687 0460  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.04.2004**

Remarks:  
-----

**Recommendation Number: G.992.5**

Id Number: G992\_5-14

Organization: **France Telecom R&D/VAT**

Main Contact: **Mr. François Jamet, Licensing and Technology Acquisition dept. Manager**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Denmark and UK.)

Patent Title: **Apparatus for the transmission of digital data with at least two levels of protection and corresponding receiver**

Patent Number: **26 60 131**

Patent Country: **France**

Date Patent Statement Received: **03.05.2004**

Remarks:  
-----

**Recommendation Number: G.992.5**

Id Number: G992\_5-15

Organization: **France Telecom R&D/VAT**

Main Contact: **Mr. François Jamet, Licensing and Technology Acquisition dept. Manager**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Device for the transmission of digital data with at least two levels of protection and corresponding reception device**

Patent Number: **51 97 061**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:  
-----

**Recommendation Number: G.992.5**

Id Number: G992\_5-16

Organization: **France Telecom R&D/VAT**

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Fax. No.: +33 446 29 33 52

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Device for the transmission of digital data with at least two levels of protection and corresponding reception device**

Patent Number: **USRE 36430**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:  
-----

**Recommendation Number: G.992.5**

Id Number: G992\_5-17

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Fax. No.: +358 7180 34496  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US, Australia, China and Japan.)

Patent Title: **Power conversation for pots and modulated data transmission**

Patent Number: **EP 1005755**

Patent Country: **Europe**

Date Patent Statement Received: **11.06.2004**

Remarks:  
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**Recommendation Number: G.992.5**

Id Number: G992\_5-18

Organization: **Broadcom Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.12.2004**

Remarks:  
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**Recommendation Number: G.993.1 Amd.1**

Id Number: G993\_1\_Amd1-01

Organization: **Intel Corporation**

Main Contact: **General Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.04.2003**

Remarks:  
-----

**Recommendation Number: G.993.1**

Id Number: G993\_1-01

Organization: **Telia AB**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.06.1999**

Remarks:

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**Recommendation Number: G.993.1**

Id Number: G993\_1-02

Organization: **Alcatel CIT (simply Alcatel)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.06.1999**

Remarks:  
-----

**Recommendation Number: G.993.1**

Id Number: G993\_1-03

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.06.1999**

Remarks:

-----

**Recommendation Number: G.993.1**

Id Number: G993\_1-04

Organization: **ECI Telecom Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

-----

**Recommendation Number: G.993.1**

Id Number: G993\_1-05

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.06.2000**

Remarks:

-----

**Recommendation Number: G.993.1**

Id Number: G993\_1-06

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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UUSA

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E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.11.2001**

Remarks:

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**Recommendation Number: G.993.1**

Id Number: G993\_1-07

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.12.2001**

Remarks:

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**Recommendation Number: G.993.1**

Id Number: G993\_1-08

Organization: **Aware, Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.04.2004**

Remarks:

-----

**Recommendation Number: G.993.1**

Id Number: G993\_1-09

Organization: **Broadcom Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.12.2004**

Remarks:

**Received after the approval of the Recommendation in June 2004**

-----



**Recommendation Number: G.994.1**

Id Number: G994\_1-01

Organization: **Cisco Systems Inc**  
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Tel. No.: +1 408 525 9706  
Fax. No.: +1 408 525 1003  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.05.1998**

Remarks:

-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-02

Organization: **Texas Instruments**  
Main Contact: **Ms. Earle Thompson**  
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Tel. No.: +1 972 917 4436  
Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Programmable Viterbi signal processor**

Patent Number: **5 220 570**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-03

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for echo cancellation with discrete multitone modulation**

Patent Number: **5 317 596**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-04

Organization: **Texas Instruments**  
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E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for adaptive variable bandwidth optimization in high-speed data transmission of a multicarrier signal over digital subscriber lines**

Patent Number: **5 479 447**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-05

Organization: **Texas Instruments**  
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E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for equalizing a multicarrier signal in a multicarrier communication system**

Patent Number: **5 285 474**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-06

Organization: **Paradyne Corporation**

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Fax. No.: +1 813 532 5949

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Licensing declaration: Pat. pol. 2.2 (under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.08.1998**

Remarks:  
-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-07

Organization: **GlobeSpan Semiconductor, Inc.**  
Main Contact: **Manager - Standards Development**  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.08.1998**

Remarks:  
-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-08

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.09.1998**

Remarks:

-----



**Recommendation Number: G.994.1**

Id Number: G994\_1-09

Organization: **Matsushita Graphic Communication Systems, Inc.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.09.1998**

Remarks:

-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-10

Organization: **AltoCom Inc.**

Main Contact: **Vice President/Chief Scientist**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.09.1998**

Remarks:  
-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-11

Organization: **Bell Atlantic Network Services, Inc.**  
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USA  
Tel. No.: +1 703 974 3946  
Fax. No.: +1 703 974 0616  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Variable rate and variable mode transmission system**

Patent Number: **5 812 786**

Patent Country: **United States**

Date Patent Statement Received: **05.10.1998**

Remarks:  
-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-12

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **12.10.1998**

Remarks:

-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-13

Organization: **AMD**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.10.1998**

Remarks:

-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-14

Organization: **Sasken Communicaion Technologies**

Main Contact: **Mr. Dasari Jagadish Kumar**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.10.1998**

Remarks:  
-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-15

Organization: **Motorola**

Main Contact: **Corporate Vice President and General Manager, Communication  
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USA

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **28.09.1998**

Remarks:  
-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-16

Organization: **VoCAL Technologies Ltd**

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Buffalo, New York 14228  
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Fax. No.: +1 716 639 0713

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.03.1999**

Remarks:

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**Recommendation Number: G.994.1**

Id Number: G994\_1-17

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

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**Recommendation Number: G.994.1**

Id Number: G994\_1-18

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

-----

**Recommendation Number: G.994.1**

Id Number: G994\_1-19

Organization: **Aware, Inc.**  
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Fax. No.: +1 781 687 0460  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.09.2000**

Remarks:  
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**Recommendation Number: G.994.1**

Id Number: G994\_1-20

Organization: **Catena Networks, Inc.**

Main Contact: **Mr. G. A. (Jim) Hjartarson, Executive Vice President of Engineering and Chief Technical Officer**

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E-mail: [jhjartarson@catena.com](mailto:jhjartarson@catena.com)

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.05.2002**

Remarks:

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**Recommendation Number: G.994.1**

Id Number: G994\_1-21

Organization: **Intel Corporation**

Main Contact: **General Counsel**

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Santa Clara, CA 95052-8119  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.04.2003**

Remarks: For Revised G.994.1 planned for 2003

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**Recommendation Number: G.994.1**

Id Number: G994\_1-22

Organization: **Broadcom Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.10.2003**

Remarks:

**Received after the approval of the Recommendation in May 2003.**

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**Recommendation Number: G.995.1**

Id Number: G995\_1-01

Organization: **Matsushita Graphic Communication Systems, Inc.**

Main Contact: **Mr. Toshio Yoshida, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.09.1998**

Remarks:

-----

**Recommendation Number: G.995.1**

Id Number: G995\_1-02

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **12.10.1998**

Remarks:

-----



**Recommendation Number: G.995.1**

Id Number: G995\_1-03

Organization: **VoCAL Technologies Ltd**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.03.1999**

Remarks:

-----

**Recommendation Number: G.995.1**

Id Number: G995\_1-04

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

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**Recommendation Number: G.995.1**

Id Number: G995\_1-05

Organization: **ECI Telecom Ltd.**  
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Fax. No.: +972 3 926 6876  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

-----

**Recommendation Number: G.996.1 Amd.1**

Id Number: G996\_1\_Amd1-01

Organization: **Intel Corporation**

Main Contact: **General Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.04.2003**

Remarks:

**Received after the approval of the Recommendation in March 2003.**

-----

**Recommendation Number: G.996.1**

Id Number: G996\_1-01

Organization: **Cisco Systems Inc**  
Main Contact: **Mr. Robert Barr, Patent Counsel**  
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San Jose, California 95134-1706  
USA  
Tel. No.: +1 408 525 9706  
Fax. No.: +1 408 525 1003  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.05.1998**

Remarks:  
-----

**Recommendation Number: G.996.1**

Id Number: G996\_1-02

Organization: **Paradyne Corporation**

Main Contact: **Intellectual Property Director**

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Licensing declaration: Pat. pol. 2.2 (under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.08.1998**

Remarks:  
-----

**Recommendation Number: G.996.1**

Id Number: G996\_1-03

Organization: **GlobeSpan Semiconductor, Inc.**  
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USA  
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Fax. No.: +1 732 345 7598  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.08.1998**

Remarks:  
-----

**Recommendation Number: G.996.1**

Id Number: G996\_1-04

Organization: **AltoCom Inc.**

Main Contact: **Vice President/Chief Scientist**

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Fax. No.: +1 650 691 4503

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.09.1998**

Remarks:  
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**Recommendation Number: G.996.1**

Id Number: G996\_1-05

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.09.1998**

Remarks:

-----

**Recommendation Number: G.996.1**

Id Number: G996\_1-06

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Tel. No.: +81 3 3218 3465

Fax. No.: +81 3 3218 2474

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Transmission equipment and method to avoid the interface**

Patent Number: **H11-118 011 (appl.no.)**

Patent Country: **Japan**

Date Patent Statement Received: **18.06.1999**

Remarks:

-----

**Recommendation Number: G.996.1**

Id Number: G996\_1-07

Organization: **AMD**

Main Contact: **Vice President and General Manager, Communication Products Division**

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Austin, Texas 78741

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Tel. No.: +1 512 385 8542

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.10.1998**

Remarks:

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**Recommendation Number: G.996.1**

Id Number: G996\_1-08

Organization: **Sasken Communicaion Technologies**

Main Contact: **Mr. Dasari Jagadish Kumar**

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E-mail: [djk@sasken.com](mailto:djk@sasken.com)

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.10.1998**

Remarks:  
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**Recommendation Number: G.996.1**

Id Number: G996\_1-09

Organization: **Motorola**

Main Contact: **Corporate Vice President and General Manager, Communication  
Transmission and Access Systems Division**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **28.09.1998**

Remarks:

-----

**Recommendation Number: G.996.1**

Id Number: G996\_1-10

Organization: **VoCAL Technologies Ltd**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.03.1999**

Remarks:

-----

**Recommendation Number: G.996.1**

Id Number: G996\_1-11

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

-----

**Recommendation Number: G.996.1**

Id Number: G996\_1-12

Organization: **ECI Telecom Ltd.**  
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Fax. No.: +972 3 926 6876  
E-mail: gil.ingel@ecitele.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:  
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**Recommendation Number: G.996.1**

Id Number: G996\_1-13

Organization: **Matsushita Graphic Communication Systems, Inc.**

Main Contact: **Mr. Toshio Yoshida, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.09.1998**

Remarks: Renumbered on 26 Sept. 03 due to the double numbering with GlobeSpan(G996\_1-03)

-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-01

Organization: **Cisco Systems Inc**  
Main Contact: **Mr. Robert Barr, Patent Counsel**  
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Fax. No.: +1 408 525 1003  
E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.05.1998**

Remarks:

-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-02

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Programmable Viterbi signal processor**

Patent Number: **5 220 570**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-03

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for echo cancellation with discrete multitone modulation**

Patent Number: **5 317 596**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-04

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for adaptive variable bandwidth optimization in high-speed data transmission of a multicarrier signal over digital subscriber lines**

Patent Number: **5 479 447**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-05

Organization: **Texas Instruments**  
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E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for equalizing a multicarrier signal in a multicarrier communication system**

Patent Number: **5 285 474**

Patent Country: **United States**

Date Patent Statement Received: **25.05.1998**

Remarks:  
-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-06

Organization: **Paradyne Corporation**

Main Contact: **Intellectual Property Director**

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Licensing declaration: Pat. pol. 2.2 (under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.08.1998**

Remarks:

-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-07

Organization: **GlobeSpan Semiconductor, Inc.**  
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Red Bank, New Jersey 07701  
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Fax. No.: +1 732 345 7598  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.08.1998**

Remarks:

-----



**Recommendation Number: G.997.1**

Id Number: G997\_1-08

Organization: **Matsushita Graphic Communication Systems, Inc.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.09.1998**

Remarks:

-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-09

Organization: **AltoCom Inc.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.09.1998**

Remarks:  
-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-10

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.09.1998**

Remarks:

-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-11

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **12.10.1998**

Remarks:

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**Recommendation Number: G.997.1**

Id Number: G997\_1-12

Organization: **AMD**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.10.1998**

Remarks:

-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-13

Organization: **Sasken Communicaion Technologies**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.10.1998**

Remarks:  
-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-14

Organization: **Motorola**

Main Contact: **Corporate Vice President and General Manager, Communication  
Transmission and Access Systems Division**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **28.09.1998**

Remarks:  
-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-15

Organization: **VoCAL Technologies Ltd**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.03.1999**

Remarks:  
-----



**Recommendation Number: G.997.1**

Id Number: G997\_1-16

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:  
-----

**Recommendation Number: G.997.1**

Id Number: G997\_1-17

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.08.1999**

Remarks:

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**Recommendation Number: G.997.1**

Id Number: G997\_1-18

Organization: **Intel Corporation**

Main Contact: **General Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.04.2003**

Remarks: For Revised G.997.1 planned for 2003

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**Recommendation Number: G.998.1**

Id Number: G998\_1-01

Organization: **Aware, Inc.**  
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Bedford, MA 01730  
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Fax. No.: +1 781 687 0460  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **30.11.2004**

Remarks:

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**Recommendation Number: G.998.2**

Id Number: G998\_1-02

Organization: **Ciena Corporation**

Main Contact: **Mr. Russell B. Stevenson, Jr, Senior Vice President and General Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **14.12.2004**

Remarks:

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**Recommendation Number: G.998.2**

Id Number: G998\_2-01

Organization: **Aware, Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **30.11.2004**

Remarks:  
-----

**Recommendation Number: G.998.3**

Id Number: G998\_3-01

Organization: **Aware, Inc.**  
Main Contact: **Mr. Kevin Russell**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **30.11.2004**

Remarks:  
-----

**Recommendation Number: G.998.3**

Id Number: G998\_3-02

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.12.2004**

Remarks:  
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**Recommendation Number: G.atton**

Id Number: Gatoon-01

Organization: **WorldCom**

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E-mail: steven.mccann@wcom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System and method for unreported trouble isolation**

Patent Number: **5,784,359**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
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**Recommendation Number: G.atoon**

Id Number: Gatoon-02

Organization: **WorldCom**

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Fax. No.: +1 202 736 6382

E-mail: steven.mccann@wcom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System method and computer program product for processing faults in a hierarchial network**

Patent Number: **5,778,184**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
-----

**Recommendation Number: G.atoon**

Id Number: Gatoon-03

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System and method for unreported trouble isolation**

Patent Number: **5,784,359**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
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**Recommendation Number: G.atoon**

Id Number: Gatoon-04

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E-mail: steven.mccann@wcom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System and method for formatting performance data in a telecommunications system**

Patent Number: **5,864,608**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:

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**Recommendation Number: G.atoon**

Id Number: Gatoon-05

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E-mail: steven.mccann@wcom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System and method for reported root cause analysis**

Patent Number: **5,864, 662**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:

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**Recommendation Number: G.atoon**

Id Number: Gatoon-06

Organization: **WorldCom**

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E-mail: steven.mccann@wcom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Enhanced problem alert signals**

Patent Number: **5,872,912**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
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**Recommendation Number: G.atoon**

Id Number: Gatoon-07

Organization: **WorldCom**

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E-mail: steven.mccann@wcom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Raw performance monitoring correlated problem alert signals**

Patent Number: **5,913,036**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:

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**Recommendation Number: G.atoon**

Id Number: Gatoon-08

Organization: **WorldCom**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System and method for unreported root cause analysis**

Patent Number: **6,072,777**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
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**Recommendation Number: G.bond**

Id Number: Gbond-01

Organization: **Actelis Networks, Inc**  
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Fax. No.: +972 3924 3492  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **14.04.2003**

Remarks:  
-----

**Recommendation Number: G.bond**

Id Number: Gbond-02

Organization: **Alcatel**

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Fax. No.: +33 1 4652 4396

E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Inverse multiplexing over ATM via communication links having disparate data transmission rates**

Patent Number: **1 253 755 (appl.no.)**

Patent Country: **Europe**

Date Patent Statement Received: **03.05.2004**

Remarks:  
-----

**Recommendation Number: G.bond**

Id Number: Gbond-03

Organization: **Alcatel**  
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E-mail: u.knecht@alcatel.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Facilitating inverse multiplexing over asynchronous transfer mode via communication lnks having disparate data tranmission rates**

Patent Number: **2002-01 54 637 (appl.no.)**

Patent Country: **United States**

Date Patent Statement Received: **03.05.2004**

Remarks:  
-----

**Recommendation Number: G.dmtbis**

Id Number: Gdmtbis-01

Organization: **Alcatel CIT (simply Alcatel)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.06.1999**

Remarks:

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**Recommendation Number: G. dmtbis**

Id Number: Gdmtbis-02

Organization: **Texas Instruments**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.12.2001**

Remarks:  
-----

**Recommendation Number: G.litebis**

Id Number: Glitebis-01

Organization: **Alcatel CIT (simply Alcatel)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.06.1999**

Remarks:

-----

**Recommendation Number: G.pnt3**

Id Number: Gpnt3-01

Organization: **CopperGate Communications Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.05.2004**

Remarks:

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**Recommendation Number: G.shdsl.bis**

Id Number: Gshdsl\_bis-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **14.04.2003**

Remarks:

-----



**Recommendation Number: H.221**

Id Number: H221-01

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Licensing declaration: Pat. pol. 2.2 (Counterparts in USA, Japan, European counterparts)

Patent Title: **High definition television coder/decoderr**

Patent Number: **GB 2 268 662**

Patent Country: **United Kingdom**

Date Patent Statement Received: **16.05.1994**

Remarks: Informed from BBC on 12 April 2000 of the request of deletion from the database.  
-----

**Recommendation Number: H.221**

Id Number: H221-02

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E-mail: caroline.plumstead@rd.bbc.co.uk

Licensing declaration: Pat. pol. 2.2 (Counterparts in USA, Japan, Europe counterparts)

Patent Title: **Interpolating lines of video signals**

Patent Number: **GB 2 197 152**

Patent Country: **United Kingdom**

Date Patent Statement Received: **16.05.1994**

Remarks: Informed from BBC on 12 April 2000 of the request of deletion from the database.  
-----

**Recommendation Number: H.221**

Id Number: H221-03

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E-mail: caroline.plumstead@rd.bbc.co.uk

Licensing declaration: Pat. pol. 2.2

Patent Title: **Buffer resynchronisation variable bitrate-reduction codecs**

Patent Number: **GB 2 242 097 A (appl. no.)**

Patent Country: **United Kingdom**

Date Patent Statement Received: **16.05.1994**

Remarks: Informed from BBC on 12 April 2000 of the request of deletion from the database.  
-----

**Recommendation Number: H.221**

Id Number: H221-04

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E-mail: caroline.plumstead@rd.bbc.co.uk

Licensing declaration: Pat. pol. 2.2 (Counterparts in USA, Japan, European counterparts)

Patent Title: **Implementation independent architecture for an HDTV bitrate-redduction codec**

Patent Number: **GB 2 240 231**

Patent Country: **United Kingdom**

Date Patent Statement Received: **16.05.1994**

Remarks: IInformed from BBC on 12 April 2000 of the request of deletion from the database.  
-----

**Recommendation Number: H.221**

Id Number: H221-05

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Licensing declaration: Pat. pol. 2.2

Patent Title: **New proposals for buffer control of quantisation law**

Patent Number: **GB 2 238 444**

Patent Country: **United Kingdom**

Date Patent Statement Received: **16.05.1994**

Remarks: Informed from BBC on 12 April 2000 of the request of deletion from the database.  
-----

**Recommendation Number: H.221**

Id Number: H221-06

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Improved measures of criticality for DCT block quantisation**

Patent Number: **GB 2 238 445**

Patent Country: **United Kingdom**

Date Patent Statement Received: **16.05.1994**

Remarks: Informed from BBC on 12 April 2000 of the request of deletion from the database.  
-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-01

Organization: **Texas Instruments**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.09.1994**

Remarks:  
-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-02

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.09.1994**

Remarks:

-----



**Recommendation Number: H.222.0**

Id Number: H222\_0-03

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **14.09.1994**

Remarks:

-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-04

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.10.1994**

Remarks:

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**Recommendation Number: H.222.0**

Id Number: H222\_0-05

Organization: **Sarnoff Corporation**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **21.11.1994**

Remarks:

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**Recommendation Number: H.222.0**

Id Number: H222\_0-06

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.11.1994**

Remarks: Informed from AT&T on 11 July 2001 that AT&T no longer owns essential IPR for this Recommendation.

-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-07

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.12.1994**

Remarks:

-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-08

Organization: **Sony Corp.**

Main Contact: **General Manager, Contracts & Licensing Division, Legal & Intellectual Property Group**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **14.12.1994**

Remarks:

-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-09

Organization: **Matsushita Electric Industrial Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity) (Counterpart in Japan)

Patent Title: **Coding means for a signal processing system**

Patent Number: **USP 5,223,949**

Patent Country: **United States**

Date Patent Statement Received: **03.01.1995**

Remarks:  
-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-10

Organization: **Matsushita Electric Industrial Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Australia, Korea, Japan, Europe, Canada)

Patent Title: **Moving image signal encoding apparatus and decoding apparatus**

Patent Number: **USP 5,113,255**

Patent Country: **United States**

Date Patent Statement Received: **03.01.1995**

Remarks:  
-----



**Recommendation Number: H.222.0**

Id Number: H222\_0-11

Organization: **Matsushita Electric Industrial Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity) (Counterparts in Japan, USA, Europe, Canada, Korea)

Patent Title: **Method for predicting move compensation**

Patent Number: **AP 637289**

Patent Country: **Australia**

Date Patent Statement Received: **03.01.1995**

Remarks:  
-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-12

Organization: **Matsushita Electric Industrial Co., Ltd.**

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E-mail: PAN15414@pas.mei.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity) (Counterparts in US, Europe)

Patent Title: **Image coding method and image coding apparatus**

Patent Number: **JP 2,669,703**

Patent Country: **Japan**

Date Patent Statement Received: **03.01.1995**

Remarks:  
-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-13

Organization: **Matsushita Electric Industrial Co., Ltd.**

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E-mail: PAN15414@pas.mei.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity) (Counterparts in US, Europe, Korea)

Patent Title: **Image coding method and apparatus**

Patent Number: **JP 2,507,199**

Patent Country: **Japan**

Date Patent Statement Received: **03.01.1995**

Remarks:  
-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-14

Organization: **Matsushita Electric Industrial Co., Ltd.**

Main Contact: **Mr. Kuni Nakae, General Manager, Licensing Business Department,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity) (Counterparts in US, Europe)

Patent Title: **An adaptive coding method for interlaced scan digital video sequences**

Patent Number: **JP2,991,833**

Patent Country: **Japan**

Date Patent Statement Received: **03.01.1995**

Remarks:  
-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-15

Organization: **Matsushita Electric Industrial Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity) (Counterparts in US, Europe)

Patent Title: **Video compression coding and decoding with automatic subpixel frame/field  
motion compensation**

Patent Number: **(pending)**

Patent Country: **Japan**

Date Patent Statement Received: **03.01.1995**

Remarks:  
-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-16

Organization: **Matsushita Electric Industrial Co., Ltd.**

Main Contact: **Mr. Kuni Nakae, General Manager, Licensing Business Department,  
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E-mail: PAN15414@pas.mei.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity) (Counterparts in Japan,  
Europe)

Patent Title: **Moving image signal encoding apparatus with variably selected quantization  
step size**

Patent Number: **USP 5,089,888**

Patent Country: **US**

Date Patent Statement Received: **03.01.1995**

Remarks:  
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**Recommendation Number: H.222.0**

Id Number: H222\_0-17

Organization: **Matsushita Electric Industrial Co., Ltd.**

Main Contact: **Mr. Kuni Nakae, General Manager, Licensing Business Department,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity) (Counterpart in Japan)

Patent Title: **Motion compensated prediction interframe coding system**

Patent Number: **USP 5,144,426**

Patent Country: **US**

Date Patent Statement Received: **03.01.1995**

Remarks:  
-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-18

Organization: **Matsushita Electric Industrial Co., Ltd.**

Main Contact: **Mr. Kuni Nakae, General Manager, Licensing Business Department,  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Moving image signal encoding apparatus**

Patent Number: **JP 2,802,066**

Patent Country: **Japan**

Date Patent Statement Received: **03.01.1995**

Remarks:  
-----



**Recommendation Number: H.222.0**

Id Number: H222\_0-19

Organization: **Matsushita Electric Industrial Co., Ltd.**

Main Contact: **Mr. Kuni Nakae, General Manager, Licensing Business Department,  
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E-mail: PAN15414@pas.mei.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity) (Counterparts in US, Europe)

Patent Title: **Digital audio signal coding system and method therefor**

Patent Number: **(pending)**

Patent Country: **Japan**

Date Patent Statement Received: **03.01.1995**

Remarks:  
-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-20

Organization: **Matsushita Electric Industrial Co., Ltd.**

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Fax. No.: +81 6 6909 1795

E-mail: PAN15414@pas.mei.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity) (Counterparts in US, Europe)

Patent Title: **Stereo audio encoding apparatus and method)**

Patent Number: **(pending)**

Patent Country: **Japan**

Date Patent Statement Received: **03.01.1995**

Remarks:  
-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-21

Organization: **Goldstar Co., Ltd.**

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Seoul 150-721  
Korea

Tel. No.:

Fax. No.: +82 2 787 3400

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Apparatus for decoding variable length codes**

Patent Number: **08/061,667 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **10.01.1995**

Remarks:

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**Recommendation Number: H.222.0**

Id Number: H222\_0-22

Organization: **Goldstar Co., Ltd.**

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Fax. No.: +82 2 787 3400

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Video decoder with parallel implementation**

Patent Number: **08/128,704 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **10.01.1995**

Remarks:

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**Recommendation Number: H.222.0**

Id Number: H222\_0-23

Organization: **Goldstar Co., Ltd.**

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Fax. No.: +82 2 787 3400

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Memory access delay control circuit for motion compensation**

Patent Number: **4 317 937**

Patent Country: **United States**

Date Patent Statement Received: **10.01.1995**

Remarks:

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**Recommendation Number: H.222.0**

Id Number: H222\_0-24

Organization: **Goldstar Co., Ltd.**

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Tel. No.:

Fax. No.: +82 2 787 3400

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Macro block addressed for digital compressed video signal decoder**

Patent Number: **08/061,906 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **10.01.1995**

Remarks:  
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**Recommendation Number: H.222.0**

Id Number: H222\_0-25

Organization: **Philips Electronics N.V.**

Main Contact: **Mr. Huub F.M. Beckers, Director, Philips Corporate Intellectual Property**

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Fax. No.: +31 40 274 3489

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.02.1995**

Remarks:

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**Recommendation Number: H.222.0**

Id Number: H222\_0-26

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **31.01.1995**

Remarks:  
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**Recommendation Number: H.222.0**

Id Number: H222\_0-27

Organization: **Sharp Corporation**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **31.01.1995**

Remarks:

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**Recommendation Number: H.222.0**

Id Number: H222\_0-28

Organization: **Centro Studi e Laboratori Telecomunicazioni SPA**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **31.01.1995**

Remarks:

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**Recommendation Number: H.222.0**

Id Number: H222\_0-29

Organization: **Samsung Electronics Co., Ltd.**

Main Contact: **Mr. Sang Chul Kwon, Manager, Intellectual Assets Group, Corporate R&D Center**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **30.01.1995**

Remarks:

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**Recommendation Number: H.222.0**

Id Number: H222\_0-30

Organization: **General Instrument Corp**

Main Contact: **Patent Dept.**

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UUSA

Tel. No.: +1 215 674 4800

Fax. No.:

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.01.1995**

Remarks:  
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**Recommendation Number: H.222.0**

Id Number: H222\_0-31

Organization: **Qualcomm Inc.**  
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Fax. No.: +1 619 452 9096  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Adaptive block size image compression method and system**

Patent Number: **5 021 891**

Patent Country: **United States**

Date Patent Statement Received: **30.01.1995**

Remarks:  
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**Recommendation Number: H.222.0**

Id Number: H222\_0-32

Organization: **Qualcomm Inc.**  
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Fax. No.: +1 619 452 9096  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Adaptive block size image compression method and system**

Patent Number: **5 107 345**

Patent Country: **United States**

Date Patent Statement Received: **30.01.1995**

Remarks:  
-----

**Recommendation Number: H.222.0**

Id Number: H222\_0-33

Organization: **Centre Commun d'Études de Télédiffusion et Télécommunications**

Main Contact: **Deputy Director**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.01.1995**

Remarks:

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**Recommendation Number: H.223**

Id Number: H223-01

Organization: **NTT Mobile Communications Network, Inc**  
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Tel. No.: +81 3 5156 1751  
Fax. No.: +81 3 5156 0233  
E-mail: tsuruhara@nttdocomo.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.01.1998**

Remarks:

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**Recommendation Number: H.223**

Id Number: H223-02

Organization: **Motorola Inc.**  
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Fax. No.: +1 847 576 8378  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.07.1998**

Remarks:  
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**Recommendation Number: H.223**

Id Number: H223-03

Organization: **Samsung Electronics Co., Ltd.**

Main Contact: **Mr. Sang Chul Kwon, Manager, Intellectual Assets Group, Corporate R&D Center**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Counterparts in United States, Japan, China, United Kingdom, Germany, Australia, Brazil, Canada, Russia, Singapore, Spain, France, Iran, Netherlands); Joint invention of Samsung and UCLA

Patent Title: **Error prevention method for multimedia**

Patent Number: **97-42940 (appl. no.)**

Patent Country: **Korea**

Date Patent Statement Received: **31.08.1998**

Remarks:  
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**Recommendation Number: H.223**

Id Number: H223-04

Organization: **Samsung Electronics Co., Ltd.**

Main Contact: **Mr. Sang Chul Kwon, Manager, Intellectual Assets Group, Corporate R&D Center**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Counterparts in Korea, Japan, China, United Kingdom, Germany, Australia, Brazil, Canada, Russia, Singapore, Spain, France, Iran, Netherlands); Joint invention of Samsung and UCLA

Patent Title: **Mobile multiplexer**

Patent Number: **08/884 630 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **31.08.1998**

Remarks:  
-----

**Recommendation Number: H.223**

Id Number: H223-05

Organization: **Samsung Electronics Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Counterparts in Korea, Japan, China, United Kingdom, Germany, Australia, Brazil, Canada, Russia, Singapore, Spain, France, Iran, Netherlands); Joint invention of Samsung and UCLA

Patent Title: **Apparatus and method for adaptive multiplexing and demultiplexing**

Patent Number: **08/938 018 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **31.08.1998**

Remarks:  
-----

**Recommendation Number: H.225**

Id Number: H225\_0-01

Organization: **VocalTec Ltd.**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.08.1997**

Remarks:

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**Recommendation Number: H.225.0**

Id Number: H225\_0-02

Organization: **Intel Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

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**Recommendation Number: H.225v4**

Id Number: H225v4-01

Organization: **Cisco Systems Inc**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **31.07.2000**

Remarks:

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**Recommendation Number: H.226**

Id Number: H226-01

Organization: **PictureTel Corp.**  
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Licensing declaration: Pat. pol.2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.09.1998**

Remarks:

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**Recommendation Number: H.227**

Id Number: H227-01

Organization: **Polycom, Inc.**  
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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.05.2003**

Remarks:

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**Recommendation Number: H.233**

Id Number: H233-01

Organization: **Nippon Telegraph and Telephone Corporation**  
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Tel. No.: +81 3 5353 4379  
Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Data randomization equipment**

Patent Number: **4 850 019**

Patent Country: **United States**

Date Patent Statement Received: **27.04.1992**

Remarks:  
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**Recommendation Number: H.233**

Id Number: H233-02

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity) (UK, Germany, France)

Patent Title: **Data randomization equipment**

Patent Number: **454 187**

Patent Country: **Europe**

Date Patent Statement Received: **27.04.1992**

Remarks:  
-----

**Recommendation Number: H.233**

Id Number: H233-03

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity) (UK, Germany, France)

Patent Title: **Data randomization equipment and method**

Patent Number: **221 538**

Patent Country: **Europe**

Date Patent Statement Received: **27.04.1992**

Remarks:  
-----

**Recommendation Number: H.233**

Id Number: H233-04

Organization: **Nippon Telegraph and Telephone Corporation**  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Data randomization equipment**

Patent Number: **3-33269 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **27.04.1992**

Remarks:  
-----

**Recommendation Number: H.233**

Id Number: H233-05

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Data encipherment equipment**

Patent Number: **3-129384 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **27.04.1992**

Remarks:  
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**Recommendation Number: H.234**

Id Number: H234-01

Organization: **Oki Electric Industry Co., Ltd.**

Main Contact: **Mr. Hiroaki Kojima, Senior Manager, Legal and Intellectual Property Division**

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E-mail: kojima153@oki.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **A method of encryption communication**

Patent Number: **1 750 331**

Patent Country: **Japan**

Date Patent Statement Received: **16.01.1995**

Remarks:  
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**Recommendation Number: H.235 Annex H**

Id Number: H235\_AnnexH-01

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **19.01.2004**

Remarks:

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**Recommendation Number: H.235 Annex H**

Id Number: H235\_AnnexH-02

Organization: **Lucent Technologies Inc.**  
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Fax. No.: +1 732 949 4729  
E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Cryptographic protocol for secure communications**

Patent Number: **52 41 599**

Patent Country: **United States**

Date Patent Statement Received: **19.01.2004**

Remarks:  
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**Recommendation Number: H.235v2**

Id Number: H235v2-01

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.02.2000**

Remarks:

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**Recommendation Number: H.239**

Id Number: H239-01

Organization: **Tandberg Telecom As**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.06.2003**

Remarks:

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**Recommendation Number: H.241**

Id Number: H241-01

Organization: **Polycom, Inc.**  
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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **12.06.2003**

Remarks:

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**Recommendation Number: H.241**

Id Number: H241-02

Organization: **Tandberg Telecom As**  
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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.06.2003**

Remarks:

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**Recommendation Number: H.245 Annex P**

Id Number: H245\_AnnexP-01

Organization: **Siemens Aktiengesellschaft**

Main Contact: **Mr. H. J. Muller, CT L&T Corporate technology, Licensing & Transactions**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **A method of controlling provision of audio communication on a network**

Patent Number: **040 168 79.1 (appl.no)**

Patent Country: **Europe**

Date Patent Statement Received: **07.10.2004**

Remarks:  
-----

**Recommendation Number: H.245**

Id Number: H245-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

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**Recommendation Number: H.245**

Id Number: H245-02

Organization: **NMS Communications**

Main Contact: **Ms. Dianne Callan, Vice President and Corporate Consul**

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E-mail: Dianne\_callan@nmss.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **DTMF tone detection and suppression with application to computer telephony over packet switched networks**

Patent Number: **6 226 303**

Patent Country: **United State**

Date Patent Statement Received: **28.11.2001**

Remarks:  
-----



**Recommendation Number: H.245**

Id Number: H245-03

Organization: **Cisco Systems Inc**  
Main Contact: **Mr. Robert Barr, Patent Counsel**  
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Tel. No.: +1 408 525 9706  
Fax. No.: +1 408 525 1003  
E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Symmetrical codec selection in an asymmetrical codec environment**

Patent Number: **6 633 582**

Patent Country: **United States**

Date Patent Statement Received: **18.11.2003**

Remarks:

**Received after the approval of the Recommendation in July 2003.**

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**Recommendation Number: H.246**

Id Number: H246-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (For Annex E.1. Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.11.2000**

Remarks:

-----

**Recommendation Number: H.246**

Id Number: H246-02

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Tel. No.: +1 408 765 1125

Fax. No.:

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Licensing declaration: Pat. pol. 2.2 (For Annex E.2. Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.11.2000**

Remarks:  
-----

**Recommendation Number: H.248.1**

Id Number: H248\_1-01

Organization: **Nortel Networks Limited**  
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Tel. No.: +1 972 685 4739  
Fax. No.: +1 972 684 3127  
E-mail: weissr@notelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe, Australia.)

Patent Title: **Communication system architecture & a management control agent and operation protocol therefore**

Patent Number: **6 385 196**

Patent Country: **United States**

Date Patent Statement Received: **15.10.2003**

Remarks:

**Received after the apporval of the Recommendatin in May 2002.**

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**Recommendation Number: H.248.26 Amd1**

Id Number: H248\_26\_Amd1-01

Organization: **Nortel Networks Limited**  
Main Contact: **Mr. Richard Weiss**  
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Richardson, Texas 75082  
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Tel. No.: +1 972 685 4739  
Fax. No.: +1 972 684 3127  
E-mail: weissr@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.11.2004**

Remarks:  
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**Recommendation Number: H.248**

Id Number: H248-01

Organization: **Cisco Systems Inc**  
Main Contact: **Mr. Robert Barr, Patent Counsel**  
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San Jose, California 95134-1706  
USA  
Tel. No.: +1 408 525 9706  
Fax. No.: +1 408 525 1003  
E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **24.01.2000**

Remarks:

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**Recommendation Number: H.248**

Id Number: H248-02

Organization: **WorldCom**

Main Contact: **Mr. Steve McCann, Chief Patent Counsel, Technology Law Group**

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Tel. No.: +1 202 736 6848

Fax. No.: +1 202 736 6382

E-mail: steven.mccann@wcom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Telecommunications System Having Separate Switch Intelligence & Fabric**

Patent Number: **6 041 109**

Patent Country: **United States**

Date Patent Statement Received: **23.10.2000**

Remarks:  
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**Recommendation Number: H.248**

Id Number: H248-03

Organization: **WorldCom**

Main Contact: **Mr. Steve McCann, Chief Patent Counsel, Technology Law Group**

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E-mail: steven.mccann@wcom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Intelligent Call Platform for an Intelligent Distributed Network Omnibus**

Patent Number: **6,098,094**

Patent Country: **United States**

Date Patent Statement Received: **06.08.2001**

Remarks:  
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**Recommendation Number: H.248**

Id Number: H248-04

Organization: **WorldCom**

Main Contact: **Mr. Steve McCann, Chief Patent Counsel, Technology Law Group**

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E-mail: steven.mccann@wcom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Intelligent Call Platform for an Intelligent Distributed Network**

Patent Number: **6,260,067**

Patent Country: **United States**

Date Patent Statement Received: **06.08.2001**

Remarks:  
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**Recommendation Number: H.248**

Id Number: H248-05

Organization: **WorldCom**

Main Contact: **Mr. Steve McCann, Chief Patent Counsel, Technology Law Group**

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Fax. No.: +1 202 736 6382

E-mail: steven.mccann@wcom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method of and system for providing services in a communications network**

Patent Number: **6 332 023**

Patent Country: **United States**

Date Patent Statement Received: **15.02.2002**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-01

Organization: **Sony Corp.**

Main Contact: **General Manager, Contracts & Licensing Division, Legal & Intellectual Property Group**

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Japan

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Fax. No.: +81 3 5448 5706

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.10.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-02

Organization: **Bellcore**

Main Contact: **General Attorney, Intellectual Property Matters**

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Livingston, New Jersey 07039-0486

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Licensing declaration: Pat. pol. 2.1 (Under the condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.03.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-03

Organization: **PictureTel Corp.**  
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Tel. No.: +1 978 292 3533  
Fax. No.: +1 978 292 3328  
E-mail: fergusonr@pictel.com

Licensing declaration: Pat. pol. 2.1 (Under the condition of reiprocity)

Patent Title: **Method and apparatus employing adaptive filtering and efficiently communicating image sequences**

Patent Number: **4 794 455**

Patent Country: **United States**

Date Patent Statement Received: **01.06.1989**

Remarks:  
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**Recommendation Number: H.261**

Id Number: H261-04

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

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USA

Tel. No.: +1 973 236 6760

Fax. No.: +1 973 236 6452

E-mail: tfrost@att.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1989**

Remarks: Informed from AT&T on 11 July 2001 that AT&T no longer owns essential IPR for this Recommendation.

-----

**Recommendation Number: H.261**

Id Number: H261-05

Organization: **Nortel Networks Limited**  
Main Contact: **Mr. Kevin L. Smith, Senior Patent Counsel**  
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Richardson, Texas 75082  
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Fax. No.: +1 972 685 3850  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.03.1990**

Remarks:  
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**Recommendation Number: H.261**

Id Number: H261-06

Organization: **Vistacom Industries, Inc.**  
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02320 Espoo  
Finland  
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Fax. No.:  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received:

Remarks:  
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**Recommendation Number: H.261**

Id Number: H261-07

Organization: **Graphics Communication Technologies, Ltd.**

Main Contact: **Vice President, Research and Development**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.06.1989**

Remarks:  
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**Recommendation Number: H.261**

Id Number: H261-08

Organization: **Nippon Telegraph and Telephone Corporation**  
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Tokyo 163-1419  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.06.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-09

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.06.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-10

Organization: **Alcatel CIT (simply Alcatel)**

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E-mail: [bernard.lamoureux@alcatel.fr](mailto:bernard.lamoureux@alcatel.fr)

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.06.1989**

Remarks:  
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**Recommendation Number: H.261**

Id Number: H261-11

Organization: **Compression Labs, Inc.**

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San Jose, California 95134  
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Tel. No.: +1 408 435 3000

Fax. No.: +1 408 922 4608

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.06.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-12

Organization: **Toshiba Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **06.06.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-13

Organization: **AEG Aktiengesellschaft**

Main Contact: **Patente und Lizenzen**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.06.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-14

Organization: **British Telecommunications, plc**  
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Fax. No.: +44 71 728 7849  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.06.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-15

Organization: **Philips Kommunikations Industrie AG**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.10.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-16

Organization: **Royal PTT Nederland N. V.**  
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Licensing declaration: Pat. pol. 2.2 (for patents not filed later than Rec. adoption date) and Under condition of reciprocity

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.06.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-17

Organization: **Sharp Corporation**  
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Fax. No.: +81 6 6606 5827  
E-mail: terashima.shigeo@sharp.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.10.1989**

Remarks:  
-----

**Recommendation Number: H.261**

Id Number: H261-18

Organization: **GPT Data Systems, A GEC Plessey Telecommunications Division**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.08.1989**

Remarks:

-----

**Recommendation Number: H.261**

Id Number: H261-19

Organization: **Société Anonyme de Télécommunications**

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Licensing declaration: Pat. pol. 2.2 (for patents not filed later than Rec. adoption date) and Under condition of reciprocity

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.09.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-20

Organization: **Philips Electronics N.V.**

Main Contact: **Mr. Huub F.M. Beckers, Director, Philips Corporate Intellectual Property**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.10.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-21

Organization: **Oki Electric Industry Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **30.10.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-22

Organization: **Centro Studi e Laboratori Telecomunicazioni SPA**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.05.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-23

Organization: **Matsushita Communication Industrial Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **31.10.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-24

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Fax. No.: +81 3 3218 2474

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.11.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-25

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
Legal and Industry Relations Grp.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.11.1989**

Remarks:  
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**Recommendation Number: H.261**

Id Number: H261-26

Organization: **NEC CORPORATION**

Main Contact: **Mr. Hideki Ogata, General Manager, Intellectual Property Division, Nec Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.11.1989**

Remarks:  
-----

**Recommendation Number: H.261**

Id Number: H261-27

Organization: **France Telecom/France Telecom Research and Development Center**

Main Contact: **Mr. Patrick Bonnier, Patents and Contracts Manager, Technology Transfert and Intellectual Property Dept.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.11.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-28

Organization: **Electronics and Telecommunications Research Institute**

Main Contact: **Technology Cooperation Group**

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Licensing declaration: Pat. pol. 2.2, but ETRI may need permission from its other possible patent partners

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.11.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-29

Organization: **Hitachi, Ltd.**

Main Contact: **US/European IP Licensing Department**

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Licensing declaration: Pat. pol.2.2

Patent Title:

Patent Number: **H01-229161 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **31.03.1989**

Remarks:

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**Recommendation Number: H.261**

Id Number: H261-30

Organization: **Robert Bosch GmbH**  
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Fax. No.: +49 711 811 33182  
E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Verfahren zur Aufbereitung und Übertragung einer Bildsequenz**

Patent Number: **3 46 636 B1 and 3 46 637 B1**

Patent Country: **Europe**

Date Patent Statement Received: **06.12.2000**

Remarks:  
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**Recommendation Number: H.261**

Id Number: H261-31

Organization: **Robert Bosch GmbH**  
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Fax. No.: +49 711 811 33182  
E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Bildcodierverfahren und Einrichtung**

Patent Number: **3 46 635 B1**

Patent Country: **Europe**

Date Patent Statement Received: **06.12.2000**

Remarks:  
-----

**Recommendation Number: H.261**

Id Number: H261-32

Organization: **Robert Bosch GmbH**  
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70469 Stuttgart-Feuerbach  
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Tel. No.: +49 711 811 33140  
Fax. No.: +49 711 811 33182  
E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Verfahren zum Übertragen und Wiedergeben von Fernsehbildsequenzen**

Patent Number: **2 79 053 B1**

Patent Country: **Europe**

Date Patent Statement Received: **06.12.2000**

Remarks:  
-----

**Recommendation Number: H.261**

Id Number: H261-33

Organization: **Robert Bosch GmbH**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and the US)

Patent Title: **Verfahren zur Erzeugung eines Stromes von Bilddaten**

Patent Number: **8 34 233 B1**

Patent Country: **Europe**

Date Patent Statement Received: **06.12.2000**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-01

Organization: **Scientific-Atlanta, Inc.**  
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South Norcross, Georgia 30092-2967  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.11.1993**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-02

Organization: **Philips Electronics N.V.**

Main Contact: **Mr. Huub F.M. Beckers, Director, Philips Corporate Intellectual Property**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.01.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-03

Organization: **Belgian Science Policy Office**

Main Contact: **Secretary General**

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Tel. No.: +32 2 238 3411

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E-mail:

Licensing declaration: Pat. pol. 2.2 (European counterpart)

Patent Title:

Patent Number: **4894713**

Patent Country: **United States**

Date Patent Statement Received: **24.03.1995**

Remarks:

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**Recommendation Number: H.262**

Id Number: H262-05

Organization: **Bellcore**

Main Contact: **General Attorney, Intellectual Property Matters**

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Fax. No.: +1 201 740 6937

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Spatially scalable video coding facilitating the derivation of variable resolution images**

Patent Number:

Patent Country: **United States**

Date Patent Statement Received: **03.11.1993**

Remarks:

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**Recommendation Number: H.262**

Id Number: H262-06

Organization: **Bellcore**

Main Contact: **General Attorney, Intellectual Property Matters**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Spatial and frequency scalable video coding facilitating the derivation of variable resolution images**

Patent Number: **5253056**

Patent Country: **United States**

Date Patent Statement Received: **03.11.1993**

Remarks:

-----



**Recommendation Number: H.262**

Id Number: H262-07

Organization: **Bellcore**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Spatially scalable video encoding and decoding**

Patent Number: **pat. pending**

Patent Country: **United States**

Date Patent Statement Received: **03.11.1993**

Remarks:

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**Recommendation Number: H.262**

Id Number: H262-08

Organization: **British Telecommunications, plc**  
Main Contact: **BT Group Legal Services, Intellectual Property Dept.**  
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United Kingdom  
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Fax. No.: +44 71 728 7849  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.04.1994**

Remarks:  
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**Recommendation Number: H.262**

Id Number: H262-09

Organization: **Sarnoff Corporation**

Main Contact: **Mr. William J. Burke, Vice President, Patents & Licensing**

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Princeton, NJ 08540  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.11.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-10

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Tel. No.: +81 44 754 8641

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E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2

Patent Title: **Video signal coding apparatus, coding method used in the video signal coding  
apparatus and video signal coding transmission system having the video signal coding  
apparatus.**

Patent Number: **JP 03-148981-A**

Patent Country: **Japan**

Date Patent Statement Received: **27.04.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-11

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Fax. No.: +81 44 754 8503

E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2

Patent Title: **An image encoding and transmitting systems**

Patent Number: **JP 05-014392-A**

Patent Country: **Japan**

Date Patent Statement Received: **27.04.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-12

Organization: **GC Technology Corporation**

Main Contact: **President and CEO**

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Japan

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Interlaced image coding method and device**

Patent Number: **3-311911 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **30.04.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-13

Organization: **Goldstar Co., Ltd.**

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Korea

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Fax. No.: +82 2 787 3400

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.05.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-14

Organization: **KDDI Corporation**

Main Contact: **Mr. Tetsuya Kondoh, Intellectual Property Department, Legal & Intellectual Division**

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E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2 (Counterparts in US and UK)

Patent Title: **Frame rate conversion system for video signals using motion vectors**

Patent Number: **1668222**

Patent Country: **Japan**

Date Patent Statement Received: **28.04.1994**

Remarks:  
-----



**Recommendation Number: H.262**

Id Number: H262-15

Organization: **KDDI Corporation**

Main Contact: **Mr. Tetsuya Kondoh, Intellectual Property Department, Legal & Intellectual Division**

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E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2 (Counterpart in US)

Patent Title: **Interlaced video signal motion compensation prediction system**

Patent Number: **05-174687 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **28.04.1994**

Remarks:  
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**Recommendation Number: H.262**

Id Number: H262-16

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Motion compensation for video signals**

Patent Number: **1835550**

Patent Country: **Japan**

Date Patent Statement Received: **28.04.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-17

Organization: **KDDI Corporation**

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E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2

Patent Title: **Efficient video coding system**

Patent Number: **03-291905 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **28.04.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-18

Organization: **KDDI Corporation**

Main Contact: **Mr. Tetsuya Kondoh, Intellectual Property Department, Legal & Intellectual Division**

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Fax. No.: +81 3 6678 0319

E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2

Patent Title: **Video signal motion compensation prediction system**

Patent Number: **03-311510 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **28.04.1994**

Remarks:  
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**Recommendation Number: H.262**

Id Number: H262-19

Organization: **Massachusetts Institute of Technology**

Main Contact: **Dean for Research**

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Cambridge, Massachusetts 02159  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.05.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-20

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **22.10.1993**

Remarks:

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**Recommendation Number: H.262**

Id Number: H262-21

Organization: **Nippon Hoso Kyokai (Japan Broadcasting Corp.)**

Main Contact: **Mr. Toru Kuroda, Planning Division, Administration Department**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **26.04.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-22

Organization: **Nippon Telegraph and Telephone Corporation**  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat.pol. 2.2

Patent Title: **High efficiency video coding equipment**

Patent Number: **1-135370**

Patent Country: **Japan**

Date Patent Statement Received: **01.10.1993**

Remarks:  
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**Recommendation Number: H.262**

Id Number: H262-23

Organization: **Nokia Corporation**  
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Fax. No.: +358 9 180 7496  
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Licensing declaration: Pat.pol. 2.2 (Counterpart in Europe)

Patent Title: **Method for compression of digitally coded video image**

Patent Number: **90179**

Patent Country: **Finland**

Date Patent Statement Received: **15.04.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-24

Organization: **Nokia Corporation**  
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Fax. No.: +358 9 180 7496  
E-mail: heikki.huttunen@nokia.com

Licensing declaration: Pat. pol. 2.2 (Counterpart in Europe)

Patent Title: **Method for the search of motion vectors for a video signal**

Patent Number: **915307 (appl. no.)**

Patent Country: **Finland**

Date Patent Statement Received: **15.04.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-25

Organization: **Nokia Corporation**  
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Fax. No.: +358 9 180 7496  
E-mail: heikki.huttunen@nokia.com

Licensing declaration: Pat. pol. 2.2 (Counterpart in Europe)

Patent Title: **Method for the search of motion vectors for a video signal**

Patent Number: **915308 (appl. no.)**

Patent Country: **Finland**

Date Patent Statement Received: **15.04.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-26

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Finland  
Tel. No.: +358 0 437 61  
Fax. No.: +358 9 180 7496  
E-mail: heikki.huttunen@nokia.com

Licensing declaration: Pat. pol. 2.2

Patent Title: **Method for the search of prediction block for motion compensated video signal**

Patent Number: **933093 (appl. no.)**

Patent Country: **Finland**

Date Patent Statement Received: **15.04.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-27

Organization: **Oki Electric Industry Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Intra frame encoder and decoder**

Patent Number: **2 642 524**

Patent Country: **Japan**

Date Patent Statement Received: **19.04.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-28

Organization: **Philips Electronics N.V.**

Main Contact: **Mr. Huub F.M. Beckers, Director, Philips Corporate Intellectual Property**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **06.02.1995**

Remarks:  
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**Recommendation Number: H.262**

Id Number: H262-29

Organization: **Sharp Corporation**  
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Fax. No.: +81 6 6606 5827  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Image communication terminal equipment**

Patent Number: **JP02-237368-A**

Patent Country: **Japan**

Date Patent Statement Received: **12.04.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-30

Organization: **Sharp Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Counterpart in US)

Patent Title: **Image encoding apparatus and image decoding apparatus**

Patent Number: **JP-05-56275-A**

Patent Country: **Japan**

Date Patent Statement Received: **12.04.1994**

Remarks:  
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**Recommendation Number: H.262**

Id Number: H262-31

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.05.1994**

Remarks:

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**Recommendation Number: H.262**

Id Number: H262-32

Organization: **Samsung Electronics Co., Ltd.**

Main Contact: **Mr. Sang Chul Kwon, Manager, Intellectual Assets Group, Corporate R&D Center**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.05.1994**

Remarks:  
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**Recommendation Number: H.262**

Id Number: H262-33

Organization: **Scientific-Atlanta, Inc.**  
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Fax. No.: +1 404 903 4700  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.11.1993**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-34

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Licensing declaration: Pat. pol. 2.2 (Counterpart in US)

Patent Title: **Method for image data reduction for digital video**

Patent Number: **0 201 679**

Patent Country: **Europe**

Date Patent Statement Received: **02.03.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-35

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Licensing declaration: Pat. pol. 2.2 (Counterpart in Japan)

Patent Title: **Apparatus for optimized weighting of transmitted transformation coefficients**

Patent Number: **48 62 263**

Patent Country: **United States**

Date Patent Statement Received: **02.03.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-36

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Method for image data reduction for digital video signals**

Patent Number: **0 284 962**

Patent Country: **Europe**

Date Patent Statement Received: **02.03.1994**

Remarks:

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**Recommendation Number: H.262**

Id Number: H262-37

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2 (Counterparts in US, Japan)

Patent Title: **Method for scene model-based image data reduction for digital video signals**

Patent Number: **0 309 669**

Patent Country: **Europe**

Date Patent Statement Received: **02.03.1994**

Remarks:

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**Recommendation Number: H.262**

Id Number: H262-38

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2 (Counterparts in US, Japan)

Patent Title: **Method for determining a decision result for an image data reduction method**

Patent Number: **0 474 636**

Patent Country: **Europe**

Date Patent Statement Received: **02.03.1994**

Remarks:

-----



**Recommendation Number: H.262**

Id Number: H262-39

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Method for adaptive quantization for data reduction in transmission of digital images**

Patent Number: **WO 92/09173**

Patent Country: ?

Date Patent Statement Received: **02.03.1994**

Remarks:

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**Recommendation Number: H.262**

Id Number: H262-40

Organization: **Toppan Printing Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **25.01.1994**

Remarks:

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**Recommendation Number: H.262**

Id Number: H262-41

Organization: **Toshiba Corporation**  
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Fax. No.: +81 3 5444 9213  
E-mail: taisuke.kato@toshiba.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **26.04.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-42

Organization: **Victor Company of Japan**

Main Contact: **Corporate Counsel, Intellectual Property Department**

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Japan

Tel. No.: +81 3 246 9857

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Licensing declaration: Pat. pol. 2.2 (Counterpart in Europe, Japan)

Patent Title: **Inter-frame predictive encoding system with encoded and transmitted prediction error**

Patent Number: **4 985 768**

Patent Country: **United States**

Date Patent Statement Received: **15.11.1993**

Remarks:  
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**Recommendation Number: H.262**

Id Number: H262-43

Organization: **Victor Company of Japan**

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Licensing declaration: Pat. pol. 2.2 (Counterpart in Europe, Japan)

Patent Title: **Apparatus for inter-frame predictive encoding of video signal**

Patent Number: **5 089 889**

Patent Country: **United States**

Date Patent Statement Received: **15.11.1993**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-44

Organization: **Victor Company of Japan**

Main Contact: **Corporate Counsel, Intellectual Property Department**

Address: 8-14, Nihonbashi-Honcho 4-Chome, Chuo-ku  
Tokyo 103  
Japan

Tel. No.: +81 3 246 9857

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E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in Japan)

Patent Title: **Inter-frame predictive coding/decoding system for varying interval between independent frames**

Patent Number: **5 103 307**

Patent Country: **United States**

Date Patent Statement Received: **15.11.1993**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-45

Organization: **Columbia University**  
Main Contact: **Vice Provost**  
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Tel. No.: +1 212 854 2330  
Fax. No.: +1 212 932 0418  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.05.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-46

Organization: **Norwegian Telecom**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.05.1994**

Remarks:

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**Recommendation Number: H.262**

Id Number: H262-47

Organization: **Sony Corp.**

Main Contact: **General Manager, Contracts & Licensing Division, Legal & Intellectual Property Group**

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Fax. No.: +81 3 5448 5706

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.06.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-48

Organization: **Samsung Electronics Co., Ltd.**

Main Contact: **Mr. Sang Chul Kwon, Manager, Intellectual Assets Group, Corporate R&D Center**

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Tel. No.: +82 331 200 3446

Fax. No.: +82 331 200 3455

E-mail: outerman@samsung.co.kr

Licensing declaration: Pat. pol. 2.2 (Counterparts in US, Japan, France)

Patent Title: **Method and circuit for two-dimensional discrete cosine transform**

Patent Number: **69452**

Patent Country: **Korea**

Date Patent Statement Received: **05.08.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-49

Organization: **Samsung Electronics Co., Ltd.**

Main Contact: **Mr. Sang Chul Kwon, Manager, Intellectual Assets Group, Corporate R&D Center**

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Suwon City, Kyungki-Do  
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Tel. No.: +82 331 200 3446

Fax. No.: +82 331 200 3455

E-mail: [outerman@samsung.co.kr](mailto:outerman@samsung.co.kr)

Licensing declaration: Pat. pol. 2.2 (Counterparts in US, UK, Denmark, France, Japan)

Patent Title: **A system for variable-length-coding and variable-length-decoding**

Patent Number: **92-13171 (appl. no.)**

Patent Country: **Korea**

Date Patent Statement Received: **05.08.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-50

Organization: **Samsung Electronics Co., Ltd.**

Main Contact: **Mr. Sang Chul Kwon, Manager, Intellectual Assets Group, Corporate R&D Center**

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Fax. No.: +82 331 200 3455

E-mail: [outerman@samsung.co.kr](mailto:outerman@samsung.co.kr)

Licensing declaration: Pat. pol. 2.2 (Counterparts in US, Japan, Russia,UK, Denmark,France)

Patent Title: **Method and apparatus for motion estimation**

Patent Number: **92-1845 (appl. no.)**

Patent Country: **Korea**

Date Patent Statement Received: **05.08.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-51

Organization: **Samsung Electronics Co., Ltd.**

Main Contact: **Mr. Sang Chul Kwon, Manager, Intellectual Assets Group, Corporate R&D Center**

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Tel. No.: +82 331 200 3446

Fax. No.: +82 331 200 3455

E-mail: outerman@samsung.co.kr

Licensing declaration: Pat. pol. 2.2 (Counterpart in US)

Patent Title: **Two-dimensional inverse discrete cosine transform processor**

Patent Number: **93-18368 (appl. no.)**

Patent Country: **Korea**

Date Patent Statement Received: **05.08.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-52

Organization: **Compression Labs, Inc.**

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San Jose, California 95134  
USA

Tel. No.: +1 408 435 3000

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.07.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-53

Organization: **Matsushita Electric Industrial Co., Ltd.**

Main Contact: **Mr. Kuni Nakae, General Manager, Licensing Business Department,  
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Japan

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Fax. No.: +81 6 6909 1795

E-mail: PAN15414@pas.mei.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.06.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-54

Organization: **Hitachi, Ltd.**

Main Contact: **US/European IP Licensing Department**

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Japan

Tel. No.: +81 3 3212 1111

Fax. No.: +81 3 3214 3110/31

+81 3 3214 3116

E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in UK)

Patent Title: **Image data transfer method and apparatus therefor**

Patent Number: **4 985 784**

Patent Country: **US**

Date Patent Statement Received: **24.06.1994**

Remarks:  
-----



**Recommendation Number: H.262**

Id Number: H262-55

Organization: **Lucent Technologies Inc.**  
Main Contact: **Mr. Paul Fillinich, Intellectual Property Business**  
Address: 101 Crawford Corner Road  
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Tel. No.: +1 732 949 8662  
Fax. No.: +1 732 949 4729  
E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Video signal interpolation using motion estimation**

Patent Number: **4 383 272**

Patent Country: **US**

Date Patent Statement Received: **07.06.1994**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: H.262**

Id Number: H262-56

Organization: **Lucent Technologies Inc.**  
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Fax. No.: +1 732 949 4729  
E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Conditional motion compensated interpolation of digital motion video**

Patent Number: **4 958 226**

Patent Country: **US**

Date Patent Statement Received: **07.06.1994**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: H.262**

Id Number: H262-57

Organization: **Lucent Technologies Inc.**  
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Fax. No.: +1 732 949 4729  
E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Adaptive coding and decoding of frames and fields of video**

Patent Number: **5 227 878**

Patent Country: **US**

Date Patent Statement Received: **07.06.1994**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: H.262**

Id Number: H262-58

Organization: **ANTNachrichtentechnik GMBH (does not exist anymore)**

Main Contact:

Address:

Tel. No.:

Fax. No.:

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Verfahren zum Übertragen und Wiedergeben von Fernsehbildsequenzen**

Patent Number: **EP 279 053 B1**

Patent Country: **Europe**

Date Patent Statement Received: **08.06.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-59

Organization: **ANTNachrichtentechnik GMBH (does not exist anymore)**

Main Contact:

Address:

Tel. No.:

Fax. No.:

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Verfahren zur Bestimmung von Suchpositionen zur Bewegungsschätzung**

Patent Number: **EP 368 151 A2**

Patent Country: **Europe**

Date Patent Statement Received: **08.06.1994**

Remarks:

---

**Recommendation Number: H.262**

Id Number: H262-60

Organization: **ANTNachrichtentechnik GMBH (does not exist anymore)**

Main Contact:

Address:

Tel. No.:

Fax. No.:

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Verfahren zur Codierung von Restfehlerbildern**

Patent Number: **EP 368 139 A2**

Patent Country: **Europe**

Date Patent Statement Received: **08.06.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-61

Organization: **ANTNachrichtentechnik GMBH (does not exist anymore)**

Main Contact:

Address:

Tel. No.:

Fax. No.:

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Bildcodierverfahren und Einrichtung**

Patent Number: **EP 346 635 A2**

Patent Country: **Europe**

Date Patent Statement Received: **08.06.1994**

Remarks:

---

**Recommendation Number: H.262**

Id Number: H262-62

Organization: **ANTNachrichtentechnik GMBH (does not exist anymore)**

Main Contact:

Address:

Tel. No.:

Fax. No.:

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Verfahren zur Aufbereitung und Übertragung einer Bildsequenz**

Patent Number: **EP 346 637 B1**

Patent Country: **Europe**

Date Patent Statement Received: **08.06.1994**

Remarks:

-----



**Recommendation Number: H.262**

Id Number: H262-63

Organization: **ANTNachrichtentechnik GMBH (does not exist anymore)**

Main Contact:

Address:

Tel. No.:

Fax. No.:

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Verfahren zur Aufbereitung und Übertragung einer Bildsequenz**

Patent Number: **EP 346 636 A2**

Patent Country: **Europe**

Date Patent Statement Received: **08.06.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-64

Organization: **ANTNachrichtentechnik GMBH (does not exist anymore)**

Main Contact:

Address:

Tel. No.:

Fax. No.:

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Verfahren zur Aufbereitung von Bilddaten**

Patent Number: **EP 439 675 A2**

Patent Country: **Europe**

Date Patent Statement Received: **08.06.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-65

Organization: **ANTNachrichtentechnik GMBH (does not exist anymore)**

Main Contact:

Address:

Tel. No.:

Fax. No.:

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Verfahren zur Codierung von Bildsignalen**

Patent Number: **EP 283 715 B1**

Patent Country: **Europe**

Date Patent Statement Received: **08.06.1994**

Remarks:

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**Recommendation Number: H.262**

Id Number: H262-66

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.09.1994**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-67

Organization: **National Transcommunications Limited**

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Fax. No.: +44 962 822 378

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.09.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-68

Organization: **Bellcore**

Main Contact: **General Attorney, Intellectual Property Matters**

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E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **22.09.1994**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-69

Organization: **Columbia University**  
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Address: 205 Low Memorial Library  
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Tel. No.: +1 212 854 2330  
Fax. No.: +1 212 932 0418  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterparts in Canada, Europe, Japan)

Patent Title: **Systems and methods for coding even fields of interlaced video sequences**

Patent Number: **5,193,004**

Patent Country: **United States**

Date Patent Statement Received: **05.01.1995**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-70

Organization: **Columbia University**  
Main Contact: **Vice Provost**  
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USA  
Tel. No.: +1 212 854 2330  
Fax. No.: +1 212 932 0418  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in Canada)

Patent Title: **JPEG/MPEG decoder-compatible optimized thresholding for image and video signal compression**

Patent Number: **212,430 (pending)**

Patent Country: **United States**

Date Patent Statement Received: **05.01.1995**

Remarks:  
-----



**Recommendation Number: H.262**

Id Number: H262-71

Organization: **Columbia University**  
Main Contact: **Vice Provost**  
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Tel. No.: +1 212 854 2330  
Fax. No.: +1 212 932 0418  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in Japan)

Patent Title: **Quantization noise reduction in oversampled analog-to-digital signal conversion**

Patent Number: **149,124 (pending)**

Patent Country: **United States**

Date Patent Statement Received: **05.01.1995**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-72

Organization: **Columbia University**  
Main Contact: **Vice Provost**  
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USA  
Tel. No.: +1 212 854 2330  
Fax. No.: +1 212 932 0418  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Digitally assisted motion compensating deinterlacing for enhanced definition television**

Patent Number: **5,305,104**

Patent Country: **United States**

Date Patent Statement Received: **05.01.1995**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-73

Organization: **Goldstar Co., Ltd.**

Main Contact:

Address: Lucky-Goldstar Twin Towers, 20 Yoido-dong, Youngdungpo-gu  
Seoul 150-721  
Korea

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Fax. No.: +82 2 787 3400

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Apparatus for decoding variable length codes**

Patent Number: **08/061,667 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **10.01.1995**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-74

Organization: **Goldstar Co., Ltd.**

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Korea

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Fax. No.: +82 2 787 3400

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Licensing declaration: Pat. pol.2.2

Patent Title: **Video decoder with parallel implementation**

Patent Number: **08/128,704 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **10.01.1995**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-75

Organization: **Goldstar Co., Ltd.**

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Fax. No.: +82 2 787 3400

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Memory access delay control circuit for motion compensation**

Patent Number: **4 317 937**

Patent Country: **United States**

Date Patent Statement Received: **10.01.1995**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-76

Organization: **Goldstar Co., Ltd.**

Main Contact:

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Seoul 150-721  
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Tel. No.:

Fax. No.: +82 2 787 3400

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Macro block addressed for digital compressed video signal decoder**

Patent Number: **08/061,906 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **10.01.1995**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-77

Organization: **NEC CORPORATION**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity and of requisite government approval)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.02.1995**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-78

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.02.1995**

Remarks:

-----



**Recommendation Number: H.262**

Id Number: H262-79

Organization: **Centro Studi e Laboratori Telecomunicazioni SPA**

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Italy

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Fax. No.: +39 11 228 5069

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **31.01.1995**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-80

Organization: **General Instrument Corp**

Main Contact: **Patent Dept.**

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Hatboro, PA 19040  
UUSA

Tel. No.: +1 215 674 4800

Fax. No.:

E-mail:

Licensing declaration: Pat. pol . 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.01.1995**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-81

Organization: **Qualcomm Inc.**  
Main Contact: **Patent Counsel**  
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San Diego, CA 92121-2779  
UUSA  
Tel. No.: +1 619 587 1121  
Fax. No.: +1 619 452 9096  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Adaptive block size image compression method and system**

Patent Number: **5 021 891**

Patent Country: **United States**

Date Patent Statement Received: **30.01.1995**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-82

Organization: **Qualcomm Inc.**  
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Tel. No.: +1 619 587 1121  
Fax. No.: +1 619 452 9096  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title: **Adaptive block size image compression method and system**

Patent Number: **5 107 345**

Patent Country: **United States**

Date Patent Statement Received: **30.01.1995**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-83

Organization: **Centre Commun d'Études de Télédiffusion et Télécommunications**

Main Contact: **Deputy Director**

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35512 Cesson-Sévigné Cedex  
France

Tel. No.: +33 99 12 41 11

Fax. No.: +33 99 12 40 98

E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterparts in France and Europe)

Patent Title: **Procédé de codage et de transmission à au moins deux niveaux de qualité d'images numériques appartenant à une séquence d'images, et dispositifs correspondants**

Patent Number: **5 196 933**

Patent Country: **United States**

Date Patent Statement Received: **23.01.1995**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-84

Organization: **France Telecom/France Telecom Research and Development Center**

Main Contact: **Mr. Patrick Bonnier, Patents and Contracts Manager, Technology Transfert and Intellectual Property Dept.**

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France

Tel. No.: +33 1 4529 5502

Fax. No.: +33 1 4529 6907

E-mail: patrick.bonnier@rd.francetelecom.fr

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.03.1995**

Remarks:

-----

**Recommendation Number: H.262**

Id Number: H262-85

Organization: **Robert Bosch GmbH**  
Main Contact: **Mr. Gerhard Baer**  
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70469 Stuttgart-Feuerbach  
Germany  
Tel. No.: +49 711 811 33140  
Fax. No.: +49 711 811 33182  
E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Verfahren zur Aufbereitung und Übertragung einer Bildsequenz**

Patent Number: **3 46 636 B1 and 3 46 637 B1**

Patent Country: **Europe**

Date Patent Statement Received: **06.12.2000**

Remarks:  
-----

**Recommendation Number: H.262**

Id Number: H262-86

Organization: **Robert Bosch GmbH**  
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70469 Stuttgart-Feuerbach  
Germany  
Tel. No.: +49 711 811 33140  
Fax. No.: +49 711 811 33182  
E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Bildcodierverfahren und Einrichtung**

Patent Number: **3 46 635 B1**

Patent Country: **Europe**

Date Patent Statement Received: **06.12.2000**

Remarks:  
-----



**Recommendation Number: H.262**

Id Number: H262-87

Organization: **Robert Bosch GmbH**  
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Germany  
Tel. No.: +49 711 811 33140  
Fax. No.: +49 711 811 33182  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Verfahren zum Übertragen und Wiedergeben von Fernsehbildsequenze**

Patent Number: **2 79 053 B1**

Patent Country: **Europe**

Date Patent Statement Received: **06.12.2000**

Remarks:  
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**Recommendation Number: H.262**

Id Number: H262-88

Organization: **Robert Bosch GmbH**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and the US)

Patent Title: **Verfahren zur Erzeugung eines Stromes von Bilddaten**

Patent Number: **8 34 233 B1**

Patent Country: **Europe**

Date Patent Statement Received: **06.12.2000**

Remarks:  
-----

**Recommendation Number: H.263**

Id Number: H263-01

Organization: **Telenor AS**  
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Fax. No.: +47 6381 0076  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in US; others pending)

Patent Title: **Fremgangsmåte for koding av billedata**

Patent Number: **175.080**

Patent Country: **Norway**

Date Patent Statement Received: **08.08.1997**

Remarks:  
-----

**Recommendation Number: H.263**

Id Number: H263-02

Organization: **Telenor AS**  
Main Contact: **Telenor Research and Development**  
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Norway  
Tel. No.: +47 6384 8400  
Fax. No.: +47 6381 0076  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Counterpart in US (appl) and other pending)

Patent Title: **Fremgangmåte for kompresjonskoding av digitale bildevideosignaler, med sammenkoding av blokker fra flere bilder**

Patent Number: **300 610**

Patent Country: **Norway**

Date Patent Statement Received: **08.08.1997**

Remarks:  
-----

**Recommendation Number: H.263**

Id Number: H263-03

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.01.1998**

Remarks:  
-----

**Recommendation Number: H.263**

Id Number: H263-04

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **26.01.1998**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-05

Organization: **Oki Electric Industry Co., Ltd.**

Main Contact: **Mr. Hiroaki Kojima, Senior Manager, Legal and Intellectual Property Division**

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Fax. No.: +81 3 3798 7246

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Picture coder, picture decoder, and picture transmission system**

Patent Number: **JP 08-098629 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **15.01.1998**

Remarks:  
-----

**Recommendation Number: H.263**

Id Number: H263-06

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Video telecommunication methods and systems**

Patent Number: **PCT/JP97/02320 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **19.01.1998**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-07

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Video telecommunication methods and systems**

Patent Number: **JP 09-179847 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **19.01.1998**

Remarks:  
-----

**Recommendation Number: H.263**

Id Number: H263-08

Organization: **Hitachi, Ltd.**

Main Contact: **US/European IP Licensing Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.06.1998**

Remarks:

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**Recommendation Number: H.263**

Id Number: H263-09

Organization: **Motorola Inc.**

Main Contact: **Corporate Vice President**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.07.1998**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-10

Organization: **Samsung Electronics Co., Ltd.**

Main Contact: **Mr. Sang Chul Kwon, Manager, Intellectual Assets Group, Corporate R&D Center**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Counterparts in United States, Japan, China, United Kingdom, Germany)

Patent Title: **Motion estimation method**

Patent Number: **97-47795 (appl. no.)**

Patent Country: **Korea**

Date Patent Statement Received: **31.08.1998**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-11

Organization: **Samsung Electronics Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Counterparts in United States, Japan, China, United Kingdom, Germany)

Patent Title: **Moving picture compression circuit and method using motion vector**

Patent Number: **97-47712 (appl. no.)**

Patent Country: **Korea**

Date Patent Statement Received: **31.08.1998**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-12

Organization: **Samsung Electronics Co., Ltd.**

Main Contact: **Mr. Sang Chul Kwon, Manager, Intellectual Assets Group, Corporate R&D Center**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Counterparts in United States, Japan, China, United Kingdom, Germany)

Patent Title: **Method for determining range of data error correction**

Patent Number: **97-42941 (appl. no.)**

Patent Country: **Korea**

Date Patent Statement Received: **31.08.1998**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-13

Organization: **Samsung Electronics Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Counterparts in United States, Japan, China, United Kingdom, Germany)

Patent Title: **Apparatus and method for correcting video data errors**

Patent Number: **97-42942 (appl. no.)**

Patent Country: **Korea**

Date Patent Statement Received: **31.08.1998**

Remarks:  
-----

**Recommendation Number: H.263**

Id Number: H263-14

Organization: **Samsung Electronics Co., Ltd.**

Main Contact: **Mr. Sang Chul Kwon, Manager, Intellectual Assets Group, Corporate R&D Center**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Counterparts in United States, Japan, China, United Kingdom, Germany)

Patent Title: **Method for decoding for adaptive multiplexing and demultiplexing**

Patent Number: **97-59286 (appl. no.)**

Patent Country: **Korea**

Date Patent Statement Received: **31.08.1998**

Remarks:

-----



**Recommendation Number: H.263**

Id Number: H263-15

Organization: **Robert Bosch GmbH**  
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E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Verfahren zur Aufbereitung und Übertragung einer Bildsequenz**

Patent Number: **3 46 636 B1 and 3 46 637 B1**

Patent Country: **Europe**

Date Patent Statement Received: **06.12.2000**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-16

Organization: **Robert Bosch GmbH**  
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E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Bildcodierverfahren und Einrichtung**

Patent Number: **3 46 635 B1**

Patent Country: **Europe**

Date Patent Statement Received: **06.12.2000**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-17

Organization: **Robert Bosch GmbH**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Verfahren zum Übertragen und Wiedergeben von Fernsehbildsequenze**

Patent Number: **2 79 053 B1**

Patent Country: **Europe**

Date Patent Statement Received: **06.12.2000**

Remarks:  
-----

**Recommendation Number: H.263**

Id Number: H263-18

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E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and the US)

Patent Title: **Verfahren zur Erzeugung eines Stromes von Bilddaten**

Patent Number: **8 34 233 B1**

Patent Country: **Europe**

Date Patent Statement Received: **06.12.2000**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-19

Organization: **Netergy Microelectronics, Inc**  
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Fax. No.: +1 408 980 0432  
E-mail: sales@netergymicro.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Progressive still frame mode**

Patent Number: **6075554**

Patent Country: **United States**

Date Patent Statement Received: **27.09.2001**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-20

Organization: **Netergy Microelectronics, Inc**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Progressive still frame mode**

Patent Number: **6108027**

Patent Country: **United States**

Date Patent Statement Received: **27.09.2001**

Remarks:  
-----

**Recommendation Number: H.263**

Id Number: H263-21

Organization: **Netergy Microelectronics, Inc**  
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E-mail: sales@netergymicro.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Deblocking filter for encoder/decoder arrangement and method with divergence reduction**

Patent Number: **6160503**

Patent Country: **United States**

Date Patent Statement Received: **27.09.2001**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-22

Organization: **Netergy Microelectronics, Inc**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Video coder/decoder**

Patent Number: **6205177**

Patent Country: **United States**

Date Patent Statement Received: **27.09.2001**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-23

Organization: **Netergy Microelectronics, Inc**  
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E-mail: sales@netergymicro.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Deblocking filter for encoder/decoder arrangement and method with divergence reduction**

Patent Number: **6215425**

Patent Country: **United States**

Date Patent Statement Received: **27.09.2001**

Remarks:  
-----

**Recommendation Number: H.263**

Id Number: H263-24

Organization: **Netergy Microelectronics, Inc**  
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Tel. No.: + 1 408 727 1885  
Fax. No.: +1 408 980 0432  
E-mail: sales@netergymicro.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Encoder arrangement and bit-exact IDCT protocol**

Patent Number: **6225923**

Patent Country: **United States**

Date Patent Statement Received: **27.09.2001**

Remarks:  
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**Recommendation Number: H.263**

Id Number: H263-25

Organization: **Netergy Microelectronics, Inc**  
Main Contact: **Mr. Douglas A. Chrissan, Vice President, Sales and Marketing**  
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Tel. No.: + 1 408 727 1885  
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E-mail: sales@netergymicro.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Video coding/decoding method and arrangement therefor**

Patent Number: **6249318**

Patent Country: **United States**

Date Patent Statement Received: **27.09.2001**

Remarks:  
-----

**Recommendation Number: H.263**

Id Number: H263-26

Organization: **Netergy Microelectronics, Inc**  
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Tel. No.: + 1 408 727 1885  
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E-mail: sales@netergymicro.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Multi-hypothesis motion-compensated video image prediction**

Patent Number: **09/148367 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **27.09.2001**

Remarks:  
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**Recommendation Number: H.264.2**

Id Number: H264\_2-01

Organization: **Microsoft Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **25.08.2004**

Remarks:  
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**Recommendation Number: H.264 Amd1**

Id Number: H264\_Amd1-01

Organization: **Tandberg Telecom As**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Conterparts in USA and WIPO.)

Patent Title: **Method and appratus for video compression**

Patent Number: **2003 2319 (appl. No.)**

Patent Country: **Norway**

Date Patent Statement Received: **21.06.2004**

Remarks:  
-----

**Recommendation Number: H.264 Amd1**

Id Number: H264\_Amd1-02

Organization: **Thomson, S. A.**

Main Contact: **Mr. Kevin H. Weidling, Vice-President, Thomson Licensing, Inc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **30.06.2004**

Remarks:

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**Recommendation Number: H.264 Amd1**

Id Number: H264\_Amd1-03

Organization: **Matsushita Electric Industrial Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **06.07.2004**

Remarks:

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**Recommendation Number: H.264 Amd1**

Id Number: H264\_Amd1-04

Organization: **Nokia Corporation**  
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FIN-00045 Nokia Group  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **14.07.2004**

Remarks:

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**Recommendation Number: H.264 Amd1**

Id Number: H264\_Amd1-05

Organization: **Broadcom Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.07.2004**

Remarks:  
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**Recommendation Number: H.264 Amd1**

Id Number: H264\_Amd1-06

Organization: **Sony Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.07.2004**

Remarks:

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**Recommendation Number: H.264 Amd1**

Id Number: H264\_Amd1-07

Organization: **Sharp Corporation**

Main Contact: **Mr. Shigeo Terashima, Intellect. Property Group**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.07.2004**

Remarks:

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**Recommendation Number: H.264 Amd1**

Id Number: H264\_Amd1-08

Organization: **Microsoft Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **25.08.2004**

Remarks:

-----

**Recommendation Number: H.264 Amd1**

Id Number: H264\_Amd1-09

Organization: **NTT Mobile Communications Network, Inc**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.10.2004**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-01

Organization: **UB Video, Inc.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.09.2002**

Remarks:

-----

**Recommendation Number: H.264**

Id Number: H264-02

Organization: **Videolocus Inc**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.09.2002**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-03

Organization: **France Telecom**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-04

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-05

Organization: **Nippon Telegraph and Telephone Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-06

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-07

Organization: **Matsushita Electric Industrial Co., Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-08

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **14.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-09

Organization: **Sony Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.10.2002**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-10

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-11

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Finland, Hong Kong, Japan and US.)

Patent Title:

Patent Number: **EP 0 966 841**

Patent Country: **Europe**

Date Patent Statement Received: **28.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-12

Organization: **Nokia Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in US)

Patent Title:

Patent Number: **PCT/FI02/00004 (appl. no.)**

Patent Country: **Europe**

Date Patent Statement Received: **28.10.2002**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-13

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **US 10/054610 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **28.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-14

Organization: **Nokia Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Australia, Canada China, Finland, Russia, Singapole, and US.)

Patent Title:

Patent Number: **EP 1902442.1 (appl. no.)**

Patent Country: **Europe**

Date Patent Statement Received: **28.10.2002**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-15

Organization: **Nokia Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Brasil, Canada, Finland, Japan, Korea, Singapore and US.)

Patent Title:

Patent Number: **EP 1902441.3**

Patent Country: **Europe**

Date Patent Statement Received: **28.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-16

Organization: **Nokia Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in US.)

Patent Title:

Patent Number: **PCT/FI01/00438 (appl.no)**

Patent Country: **Europe**

Date Patent Statement Received: **28.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-17

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Finland and US.)

Patent Title:

Patent Number: **PCT/F102/00093 (appl.no)**

Patent Country: **Europe**

Date Patent Statement Received: **28.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-18

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. )

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **21.10.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-19

Organization: **Thomson**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Note added by the Patent Holder on 4 Feb. 2003: As to the implementations of the JVT Baseline Profile, the Patent Holder is willing to grant a license under the patent in the list attached hereto to an unrestricted number of applications on a worldwide, non-discriminatory basis without monetary consideration, on the condition that all other patent holders agree to do the same.)

Patent Title: **Differential coding of motion vectors using the median of candidate vectors.**

Patent Number: **5 905, 535**

Patent Country: **United States**

Date Patent Statement Received: **07.11.2002**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-20

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E-mail: taisuke.kato@toshiba.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.11.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-21

Organization: **LG Electronics Inc.**

Main Contact: **Mr. Byeong-Moon Jeon, DVC Group, Digital Media Research Lab.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.12.2002**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-22

Organization: **NEC CORPORATION**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.12.2002**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-23

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **12.12.2002**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-24

Organization: **NTT Mobile Communications Network, Inc**  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.12.2002**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-25

Organization: **Fujitsu Ltd.**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **24.12.2002**

Remarks:  
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**Recommendation Number: H264**

Id Number: H264-26

Organization: **Conexant Systems**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.01.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-27

Organization: **KDDI Corporation**

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E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Motion Compensation**

**Motion compensation method for video signals**

Patent Number: **1,835,550**

Patent Country: **Japan**

Date Patent Statement Received: **13.12.2002**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-28

Organization: **Fraunhofer\_Gesellschaft zur Forderung der angewandten Forschung e. V.**

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Germany

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Verfahren und Anordnung zur Codierung von Transformations-Koeffizienten in Bild und/oder Videokodierern und -dekodierern sowie ein entsprechendes computerlesbares Speichermedium**

Patent Number: **102 20 961.8 (appl. no.)**

Patent Country: **Germany**

Date Patent Statement Received: **14.01.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-29

Organization: **Fraunhofer\_Gesellschaft zur Forderung der angewandten Forschung e. V.**  
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Licensing declaration: Pat. pol. 2.2

Patent Title: **Verfahren und Anordnung zur tabellengestutzten binaren arithmetischen  
Enckodierung sowie ein entsprechendes Computerprogrammprodukt und ein entsprechendes  
computerlesbares Speichermedium**

Patent Number: **102 20 962.6 (appl. no.)**

Patent Country: **Germany**

Date Patent Statement Received: **14.01.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-30

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **19.12.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-31

Organization: **Sharp Laboratories of America, Inc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **Method for reduced bit-depth quantization**

Patent Number: **pending**

Patent Country: **USA**

Date Patent Statement Received: **03.03.2003**

Remarks:  
-----

**Recommendation Number: H.264**

Id Number: H264-32

Organization: **Sharp Laboratories of America, Inc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **Systems and methods for reduced bit-depth processing in video related data**

Patent Number: **pending**

Patent Country: **USA**

Date Patent Statement Received: **03.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-33

Organization: **Sharp Laboratories of America, Inc**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **Systems and methods for enabling reduced bit-depth processing and memory reduction in video related data processes**

Patent Number: **pending**

Patent Country: **USA**

Date Patent Statement Received: **03.03.2003**

Remarks:  
-----

**Recommendation Number: H.264**

Id Number: H264-34

Organization: **Sharp Laboratories of America, Inc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **Systems and methods for efficient video related data processing**

Patent Number: **pending**

Patent Country: **USA**

Date Patent Statement Received: **03.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-35

Organization: **Sharp Laboratories of America, Inc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **Adaptive filtering based on boundary strength**

Patent Number: **pending**

Patent Country: **USA**

Date Patent Statement Received: **03.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-36

Organization: **Sharp Laboratories of America, Inc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **Methods and systems for image intra-prediction mode estimation**

Patent Number: **pending**

Patent Country: **USA**

Date Patent Statement Received: **03.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-37

Organization: **Sharp Laboratories of America, Inc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **Methods and systems for image intra-prediction mode communication**

Patent Number: **pending**

Patent Country: **USA**

Date Patent Statement Received: **03.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-38

Organization: **Sharp Laboratories of America, Inc**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **Methods and systems for image intra-prediction mode organization**

Patent Number: **pending**

Patent Country: **USA**

Date Patent Statement Received: **03.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-39

Organization: **Sharp Laboratories of America, Inc**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **Method and apparatus for controlling block filtering or post filtering in block based motion compensated video coding**

Patent Number: **pending**

Patent Country: **USA**

Date Patent Statement Received: **03.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-40

Organization: **Sharp Laboratories of America, Inc**

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E-mail: skrieger@sharplabs.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **Hypothetical reference decoder to allow better seekability performance**

Patent Number: **pending**

Patent Country: **USA**

Date Patent Statement Received: **03.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-41

Organization: **RealNetworks, Inc.**  
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E-mail: gregc@real.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for providing scalable pre-compressed digital video with reduced quantization based artifacts**

Patent Number: **6 480 541 (appl.no)**

Patent Country: **USA**

Date Patent Statement Received: **04.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-42

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **28.02.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-43

Organization: **Mobilygen Corp.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **06.03.2002**

Remarks: Pat, policy 2.1 for H.264 Baseline profile

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**Recommendation Number: H.264**

Id Number: H264-44

Organization: **Electronics and Telecommunications Research Institute**  
Main Contact: **Mr. Kyuheon Kim, Broadcasting media Research department**  
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Tel. No.: +82 42 860 5525  
Fax. No.: +82 42 860 5479  
E-mail: kkim@etri.re.kr

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Water ring scanning apparatus and method, and apparatus and method for encoding/decoding video sequences using the same**

Patent Number: **10-0353851**

Patent Country: **Korea**

Date Patent Statement Received: **07.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-45

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-46

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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USA

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Fax. No.: +1 914 765 4420

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Probability adaptataion for arithmetic coders**

Patent Number: **5099440**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-47

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Adaptive graylevel image copression system**

Patent Number: **4725885**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-48

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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Tel. No.: +1 914 765 4369

Fax. No.: +1 914 765 4420

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Symmetrical optimized adaptive data compression/transfer/decompression system**

Patent Number: **4633490**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-49

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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Tel. No.: +1 914 765 4369

Fax. No.: +1 914 765 4420

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Transform coding using using coefficient prediction**

Patent Number: **5001559**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-50

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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USA

Tel. No.: +1 914 765 4369

Fax. No.: +1 914 765 4420

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Compression of multilevel signals**

Patent Number: **4749983**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-51

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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Tel. No.: +1 914 765 4369

Fax. No.: +1 914 765 4420

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Probability adaptation for arithmetic coders**

Patent Number: **4933883**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-52

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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Tel. No.: +1 914 765 4369

Fax. No.: +1 914 765 4420

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Arithmetic coding encoder and decoder system**

Patent Number: **4905297**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-53

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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Fax. No.: +1 914 765 4420

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Probability adaptation for arithmetic coders**

Patent Number: **4935882**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-54

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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USA

Tel. No.: +1 914 765 4369

Fax. No.: +1 914 765 4420

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Multiplication-free multialphabet arithmetic code**

Patent Number: **4652856**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-55

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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Tel. No.: +1 914 765 4369

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Arithmetic coding data compression/de-compression by selectively employed diverse arithmetic coding encoders and decoders**

Patent Number: **4891643**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-56

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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Tel. No.: +1 914 765 4369

Fax. No.: +1 914 765 4420

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **High-speed arithmetic compression coding using concurrent value updating**

Patent Number: **4467317**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-57

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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USA

Tel. No.: +1 914 765 4369

Fax. No.: +1 914 765 4420

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and means for carryover control in the high order to low order pairwise combining of digits of a decodable set of relatively shifted finite number strings**

Patent Number: **4463342**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-58

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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Tel. No.: +1 914 765 4369

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Merged VLSI implementation of hardware optimized Q-Coder and software optimized QM-Coder**

Patent Number: **5859604**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-59

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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Tel. No.: +1 914 765 4369

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Merged VLSI implementation of hardware optimized Q-Coder and software optimized QM-Coder**

Patent Number: **6091854**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:

-----

**Recommendation Number: H.264**

Id Number: H264-60

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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Tel. No.: +1 914 765 4369

Fax. No.: +1 914 765 4420

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System and method for frame differencing video compression and decompression with frame rate scalability**

Patent Number: **5384598**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-61

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Gerald T. Lane**

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Tel. No.: +1 914 765 4369

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Adaptive quantization within the JPEG sequential mode**

Patent Number: **5157488**

Patent Country: **USA**

Date Patent Statement Received: **12.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-62

Organization: **AT&T Corp.**

Main Contact: **Mr. John K. Klingert, Intellectual Property Vice President**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-63

Organization: **DemoGraFX, Inc.**

Main Contact: **Mr. Kenneth S. Boschwitz, Vice President, Corporate Development**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **14.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-64

Organization: **Scientific-Atlanta, Inc**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **14.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-65

Organization: **Philips Electronics N.V.**

Main Contact: **Mr. Huub F.M. Beckers, Director, Philips Corporate Intellectual Property**

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Tel. No.: +31 40 274 3385

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **12.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-66

Organization: **Robert Bosch GmbH**  
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Fax. No.: +49 711 811 33182  
E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **346 637 B1**

Patent Country: **Europe**

Date Patent Statement Received: **20.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-67

Organization: **Robert Bosch GmbH**  
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Fax. No.: +49 711 811 33182  
E-mail: gerhard.baer@de.bosch.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **279 053 B1**

Patent Country: **Europe**

Date Patent Statement Received: **20.03.2003**

Remarks:  
-----

**Recommendation Number: H.264**

Id Number: H264-68

Organization: **Robert Bosch GmbH**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **995 317 B1**

Patent Country: **Europe**

Date Patent Statement Received: **20.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-69

Organization: **Lucent Technologies Inc.**  
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Fax. No.: +1 732 949 4729  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **21.03.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-70

Organization: **Apple Computer Incorporated**  
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USA  
Tel. No.: +1 408 974 9453  
Fax. No.:  
E-mail: iplaw@apple.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **24.03.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-71

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **22.04.2003**

Remarks:

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**Recommendation Number: H.264**

Id Number: H264-72

Organization: **FastVDC LLC**  
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USA  
Tel. No.: +1 410 241 7073  
Fax. No.: +1 410 290 8050  
E-mail: pnt@fastvdo.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Fast lapped image transforms using lifting steps**

Patent Number: **6 421 464**

Patent Country: **United States**

Date Patent Statement Received: **15.05.2003**

Remarks:  
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**Recommendation Number: H.264**

Id Number: H264-73

Organization: **Intel Corporation**

Main Contact: **Standards Licensing Department**

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Oregon 97124  
USA

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E-mail: standards.licensing@intel.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.02.2004**

Remarks:

**Received after the approval of the Recommendation in May 2003.**

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**Recommendation Number: H.264**

Id Number: H264-74

Organization: **Dolby Laboratories Inc,**

Main Contact: **Mr. Ed Schummer, Senior Vice-President and General Manager, Consumer Division**

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E-mail: eas@dolby.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **31.03.2004**

Remarks:

**Received after the approval of the Recommendation in May 2003.**

-----



**Recommendation Number: H.323**

Id Number: H323-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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UUSA

Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for automatically converting from an analog voice mode to a simultaneous voice and data mode for a multimodal call over a telephone line**

Patent Number: **5 606 599**

Patent Country: **United States**

Date Patent Statement Received: **26.03.1998**

Remarks:

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**Recommendation Number: H.323**

Id Number: H323-02

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System for identifying new client and allocating bandwidth thereto by monitoring transmission of message received periodically from client computers informing of their current status**

Patent Number: **5 600 797**

Patent Country: **United States**

Date Patent Statement Received: **26.03.1998**

Remarks:

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**Recommendation Number: H.323**

Id Number: H323-03

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for multiplexing voice and data on a single analog-loop telephone line**

Patent Number: **5 692 035**

Patent Country: **United States**

Date Patent Statement Received: **26.03.1998**

Remarks:

-----

**Recommendation Number: H.323**

Id Number: H323-04

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

-----

**Recommendation Number: H.323**

Id Number: H323-05

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title:

Patent Number:

Patent Country: **Israel**

Date Patent Statement Received: **03.09.1999**

Remarks:  
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**Recommendation Number: H.323**

Id Number: H323-06

Organization: **Cisco Systems Inc**  
Main Contact: **Mr. Robert Barr, Patent Counsel**  
Address: 170 West Tasman Drive  
San Jose, California 95134-1706  
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Tel. No.: +1 408 525 9706  
Fax. No.: +1 408 525 1003  
E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **31.07.2000**

Remarks:  
-----

**Recommendation Number: H.324**

Id Number: H324-01

Organization: **Compression Labs, Inc.**

Main Contact:

Address: 2860 Junction Avenue  
San Jose, California 95134  
USA

Tel. No.: +1 408 435 3000

Fax. No.: +1 408 922 4608

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.07.1994**

Remarks:

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**Recommendation Number: H.324**

Id Number: H324-02

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.02.1997**

Remarks:  
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**Recommendation Number: H.324**

Id Number: H324-03

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **31.07.1995**

Remarks:

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**Recommendation Number: H.324**

Id Number: H324-04

Organization: **Motorola Inc.**

Main Contact: **Corporate Vice President**

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Schaumburg, Illinois 60196-1078  
USA

Tel. No.: +1 847 576 4446

Fax. No.: +1 847 576 8378

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.07.1998**

Remarks:  
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**Recommendation Number: H.324**

Id Number: H324-05

Organization: **NTT Mobile Communications Network, Inc**  
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Tokyo 100-6150  
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Tel. No.: +81 3 5156 1751  
Fax. No.: +81 3 5156 0233  
E-mail: tsuruhara@nttdocomo.co.jp

Licensing declaration: Pat. pol. 2.2 (For Annex H. Under condition of reciprocity)

Patent Title: **Frame transmission scheme and frame transmission equipment**

Patent Number: **2000-015991(appl.no)**

Patent Country: **Japan**

Date Patent Statement Received: **24.11.2000**

Remarks:  
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**Recommendation Number: H.341**

Id Number: H341-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

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**Recommendation Number: H.450.4**

Id Number: H450\_4-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

-----

**Recommendation Number: H.450.5**

Id Number: H450\_5-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

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**Recommendation Number: H.450.6**

Id Number: H450\_6-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

-----

**Recommendation Number: H450.7**

Id Number: H450\_7-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

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**Recommendation Number: H.460.8**

Id Number: H460\_8-01

Organization: **Cisco Systems Inc**  
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Fax. No.: +1 408 525 1003  
E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **26.03.2003**

Remarks:

**Received after the approval of the Recommendation in Nov. 2002.**

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**Recommendation Number: H.460.9**

Id Number: H460\_9-01

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.10.2002**

Remarks:

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**Recommendation Number: H.460.delayed**

Id Number: H460\_delayed-01

Organization: **Cisco Systems Inc**  
Main Contact: **Mr. Robert Barr, Patent Counsel**  
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San Jose, California 95134-1706  
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Tel. No.: +1 408 525 9706  
Fax. No.: +1 408 525 1003  
E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **24.09.2003**

Remarks:

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**Recommendation Number: H.530**

Id Number: H530-01

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Fax. No.: +49 89 6368 1855

E-mail: dieter.reinhardt@mchm.siemens.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Verfahren zur Datenverkehrssicherung in einer mobilen Netzumgebung**

Patent Number: **102 02689.0 (appl. no.)**

Patent Country: **Germany**

Date Patent Statement Received: **22.02.2002**

Remarks:

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**Recommendation Number: H.fsv-arch**

Id Number: Hfsv\_arch-01

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **19.05.2003**

Remarks:

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**Recommendation Number: I.150**

Id Number: I150-01

Organization: **British Telecommunications, plc**  
Main Contact: **BT Group Legal Services, Intellectual Property Dept.**  
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London WC1E 6BA  
United Kingdom  
Tel. No.: +44 71 728 7230  
Fax. No.: +44 71 728 7849  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **0168265B1**

Patent Country: **United Kingdom**

Date Patent Statement Received: **05.07.1995**

Remarks:

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**Recommendation Number: I.150**

Id Number: I150-02

Organization: **British Telecommunications, plc**  
Main Contact: **BT Group Legal Services, Intellectual Property Dept.**  
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London WC1E 6BA  
United Kingdom  
Tel. No.: +44 71 728 7230  
Fax. No.: +44 71 728 7849  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **0297629B1**

Patent Country: **United Kingdom**

Date Patent Statement Received: **05.07.1995**

Remarks:

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**Recommendation Number: I.356**

Id Number: I356-01

Organization: **France Telecom R&D/VAT**

Main Contact: **Mr. François Jamet, Licensing and Technology Acquisition dept. Manager**

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Fax. No.: +33 446 29 33 52

E-mail: francois.jamet@francetelecom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in CA, DE, ES, FR, GB, IT and JP.)

Patent Title: **Method for controlling the delivery from cells**

Patent Number: **US 5 400 336**

Patent Country: **United States**

Date Patent Statement Received: **14.01.2003**

Remarks:

**Received after the approval of the Recommendation in March 2000.**

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**Recommendation Number: I.361.1**

Id Number: I361\_1-01

Organization: **Sumitomo Electric Industries Ltd**

Main Contact: **Mr. Minoru Wanatabe, General Manager, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.06.1998**

Remarks:

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**Recommendation Number: I.361**

Id Number: I361-01

Organization: **British Telecommunications, plc**  
Main Contact: **BT Group Legal Services, Intellectual Property Dept.**  
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London WC1E 6BA  
United Kingdom  
Tel. No.: +44 71 728 7230  
Fax. No.: +44 71 728 7849  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **0168265B1**

Patent Country: **United Kingdom**

Date Patent Statement Received: **05.07.1995**

Remarks:

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**Recommendation Number: I.361**

Id Number: I361-02

Organization: **British Telecommunications, plc**  
Main Contact: **BT Group Legal Services, Intellectual Property Dept.**  
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London WC1E 6BA  
United Kingdom  
Tel. No.: +44 71 728 7230  
Fax. No.: +44 71 728 7849  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **0297629B1**

Patent Country: **United Kingdom**

Date Patent Statement Received: **05.07.1995**

Remarks:

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**Recommendation Number: I.363.1**

Id Number: I363\_1-01

Organization: **Sprint Communications**  
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Westwood, Kansas 66205  
UUSA  
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Fax. No.: +1 913 624 8963  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **08/395 745 (appl no.)**

Patent Country: **United States**

Date Patent Statement Received: **20.04.1996**

Remarks:  
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**Recommendation Number: I.363.1**

Id Number: I363\_1-02

Organization: **Cisco Systems Inc**  
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USA  
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Fax. No.: +1 408 525 1003  
E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.07.2000**

Remarks:

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**Recommendation Number: I.363.1**

Id Number: I363\_1-03

Organization: **France Telecom R&D/VAT**

Main Contact: **Mr. François Jamet, Licensing and Technology Acquisition dept. Manager**

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Fax. No.: +33 446 29 33 52

E-mail: francois.jamet@francetelecom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method for synchronisation by frequency compensation and device for implementing the method**

Patent Number: **FR2579047**

Patent Country: **France**

Date Patent Statement Received: **14.01.2003**

Remarks:

**Received after the approval of the Recommendation in August 1996.**

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**Recommendation Number: I.363.1**

Id Number: I363\_1-04

Organization: **France Telecom R&D/VAT**

Main Contact: **Mr. François Jamet, Licensing and Technology Acquisition dept. Manager**

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92794 Issy les Moulineaux, Cedex 9  
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Tel. No.: +33 44 5 29 57 67

Fax. No.: +33 446 29 33 52

E-mail: francois.jamet@francetelecom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Device for synchronising packets by dual phase-lock loop**

Patent Number: **FR2594277**

Patent Country: **France**

Date Patent Statement Received: **14.01.2003**

Remarks:

**Received after the approval of the Recommendation in August 1996.**

-----

**Recommendation Number: I.363.2**

Id Number: I363\_2-01

Organization: **Ericsson Radio Systems AB**

Main Contact: **Vice President, Intellectual Property Rights**

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Tel. No.: +46 8 757 0618

Fax. No.: +46 8 757 1442

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.09.1997**

Remarks:

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**Recommendation Number: I.363.2**

Id Number: I363\_2-02

Organization: **Alcatel CIT (simply Alcatel)**

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Fax. No.:

E-mail: [bernard.lamoureux@alcatel.fr](mailto:bernard.lamoureux@alcatel.fr)

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **94 400 155.1 (appl. no.)**

Patent Country: **Europe**

Date Patent Statement Received: **18.09.1997**

Remarks:

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**Recommendation Number: I.363.2**

Id Number: I363\_2-03

Organization: **NTT Mobile Communications Network, Inc**  
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Fax. No.: +81 3 5156 0233  
E-mail: tsuruhara@nttdocomo.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.11.1997**

Remarks:

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**Recommendation Number: I.363**

Id Number: I363-01

Organization: **Bellcore**

Main Contact: **General Attorney, Intellectual Property Matters**

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Livingston, New Jersey 07039-0486

USA

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Fax. No.: +1 201 740 6937

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Synchronous residual time stamp for timing recovery in a broadband network**

Patent Number: **5 260 978**

Patent Country: **United States**

Date Patent Statement Received: **01.03.1995**

Remarks:

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**Recommendation Number: I.363**

Id Number: I363-02

Organization: **Lucent Technologies Inc.**  
Main Contact: **Mr. Paul Fillinich, Intellectual Property Business**  
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Tel. No.: +1 732 949 8662  
Fax. No.: +1 732 949 4729  
E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **4 979 174**

Patent Country: **United States**

Date Patent Statement Received: **10.03.1995**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

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**Recommendation Number: I.364**

Id Number: I364-01

Organization: **Alcatel Alsthom (simply Alcatel)**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.06.1998**

Remarks:

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**Recommendation Number: I.366.1**

Id Number: I366\_1-01

Organization: **NTT Mobile Communications Network, Inc**  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.03.1998**

Remarks:

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**Recommendation Number: I.366.2**

Id Number: I366\_2-01

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Counterparts in Europe, Brazil, Japan pending)

Patent Title:

Patent Number: **5 117 453**

Patent Country: **United States**

Date Patent Statement Received: **13.05.1998**

Remarks:

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**Recommendation Number: I.371**

Id Number: I371-01

Organization: **Lucent Technologies Inc.**  
Main Contact: **Mr. Paul Fillinich, Intellectual Property Business**  
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Holmdel, NJ 07733  
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Tel. No.: +1 732 949 8662  
Fax. No.: +1 732 949 4729  
E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **4 769 810**

Patent Country: **United States**

Date Patent Statement Received: **08.03.1995**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----



**Recommendation Number: I.371**

Id Number: I371-02

Organization: **Lucent Technologies Inc.**  
Main Contact: **Mr. Paul Fillinich, Intellectual Property Business**  
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E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **4 769 811**

Patent Country: **United States**

Date Patent Statement Received: **08.03.1995**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

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**Recommendation Number: I.371**

Id Number: I371-03

Organization: **Toshiba Corporation**  
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Fax. No.: +81 3 5444 9213  
E-mail: taisuke.kato@toshiba.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Counterparts in Japan, Canada and Europe)

Patent Title: **Broadband Switching Networks**

Patent Number: **5 825 766**

Patent Country: **United States**

Date Patent Statement Received: **03.02.1999**

Remarks:  
-----

**Recommendation Number: I.371**

Id Number: I371-04

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Fax. No.: +31 70 446 0840

E-mail: k.wuyts@kpn.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan, US, Austria, Belgium etc.)

Patent Title: **Method for monitoring by means of a monitoring device, a downstream transmission medium containing a multiplicity of virtual, asynchronously time-shared transmission channels.**

Patent Number: **2 024 583**

Patent Country: **Canada**

Date Patent Statement Received: **19.07.2002**

Remarks:

**Received after the approval of the Recommendation in March 2000.**

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**Recommendation Number: I.371**

Id Number: I371-05

Organization: **France Telecom R&D/VAT**

Main Contact: **Mr. François Jamet, Licensing and Technology Acquisition dept. Manager**

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Fax. No.: +33 446 29 33 52

E-mail: francois.jamet@francetelecom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in CA, DE, ES, FR, GB, IT and JP.)

Patent Title: **Method for controlling the delivery from cells**

Patent Number: **US 5 400 336**

Patent Country: **United States**

Date Patent Statement Received: **14.01.2003**

Remarks:

**Received after the approval of the Recommendation in March 2000.**

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**Recommendation Number: I.371**

Id Number: I371-06

Organization: **France Telecom R&D/VAT**

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E-mail: francois.jamet@francetelecom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in AU, CA, DE, FR, GB, IT , JP and SE..)

Patent Title: **Method and system of smoothing and control of asynchronous time communications**

Patent Number: **US 5 297 140**

Patent Country: **United States**

Date Patent Statement Received: **14.01.2003**

Remarks:

**Received after the approval of the Recommendation in March 2000.**

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**Recommendation Number: I.371**

Id Number: I371-07

Organization: **France Telecom R&D/VAT**

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France

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Fax. No.: +33 446 29 33 52

E-mail: francois.jamet@francetelecom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in CA, DE, ES, FR, GB, IT, BE, NL and JP.)

Patent Title: **Bit rate reservation at switching nodes of an asynchronous network**

Patent Number: **US 5 600 645**

Patent Country: **United States**

Date Patent Statement Received: **14.01.2003**

Remarks:

**Received after the approval of the Recommendation in March 2000.**

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**Recommendation Number: I.371**

Id Number: I371-08

Organization: **France Telecom R&D/VAT**

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E-mail: francois.jamet@francetelecom.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in DE, FR, GB, IT and JP.)

Patent Title: **Bit rate reservation in an ATM network**

Patent Number: **EP 0612173**

Patent Country: **Europe**

Date Patent Statement Received: **14.01.2003**

Remarks:

**Received after the approval of the Recommendation in March 2000.**

-----

**Recommendation Number: I.432.1**

Id Number: I432\_1-01

Organization: **Nortel Networks Limited**  
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Fax. No.: +1 972 685 3850  
E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Sequence synchronization**

Patent Number: **5 237 593**

Patent Country: **United States**

Date Patent Statement Received: **24.11.1998**

Remarks:  
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**Recommendation Number: I.432.1**

Id Number: I432\_1-02

Organization: **Nortel Networks Limited**  
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Fax. No.: +1 972 685 3850  
E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 321 754**

Patent Country: **United States**

Date Patent Statement Received: **24.11.1998**

Remarks:  
-----

**Recommendation Number: I.432.1**

Id Number: I432\_1-03

Organization: **Nortel Networks Limited**  
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USA  
Tel. No.: +1 972 685 4739  
Fax. No.: +1 972 684 3127  
E-mail: weissr@notelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada, Australia, Europe and Japan.)

Patent Title: **Data stream frame synchronisation**

Patent Number: **5 367 544**

Patent Country: **United states**

Date Patent Statement Received: **06.05.2003**

Remarks:

**Received after the approval of the Recommendation in February 1999.**

-----

**Recommendation Number: I.432.5**

Id Number: I432\_5-01

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **000 019 709 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **31.07.1997**

Remarks:

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**Recommendation Number: I.432.5**

Id Number: I432\_5-02

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **2 716 315 (appl. no.)**

Patent Country: **France**

Date Patent Statement Received: **31.07.1997**

Remarks:  
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**Recommendation Number: I.432.5**

Id Number: I432\_5-03

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **09 501 140 (appl. no.)**

Patent Country: **France**

Date Patent Statement Received: **31.07.1997**

Remarks:

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**Recommendation Number: I.432.5**

Id Number: I432\_5-04

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in France, Germany, UK)

Patent Title:

Patent Number: **9 448 017.1 (appl. no.)**

Patent Country: **Europe**

Date Patent Statement Received: **31.07.1997**

Remarks:

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**Recommendation Number: I.432.5**

Id Number: I432\_5-05

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **JP 006-311570 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **31.07.1997**

Remarks:

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**Recommendation Number: I.610**

Id Number: I610-01

Organization: **Nortel Networks Limited**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method of tracing the route of an ATM virtual connection**

Patent Number: **08/419 898 (serial number)**

Patent Country: **United States**

Date Patent Statement Received: **25.08.1997**

Remarks:  
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**Recommendation Number: I.620**

Id Number: I620-01

Organization: **Nortel Networks Limited**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **22.08.1996**

Remarks:

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**Recommendation Number: I.630**

Id Number: I630-01

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.02.1999**

Remarks:

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**Recommendation Number: I.761**

Id Number: I761-01

Organization: **PMC-Sierra, Inc**  
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Fax. No.: +1 604 415 6207  
E-mail: Steve\_Perna@pmc-sierra.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **ATM Inverse Multiplexing System**

Patent Number: **5 875 192**

Patent Country: **United States**

Date Patent Statement Received: **15.12.1999**

Remarks:  
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**Recommendation Number: I.761**

Id Number: I761-02

Organization: **Cisco Systems Inc**  
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Fax. No.: +1 408 525 1003  
E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada and Europe)

Patent Title: **Asynchronous transfer mode communication in inverse multiplexing over multiple communication links**

Patent Number: **5 617 417**

Patent Country: **United States**

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in March 2000.**

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**Recommendation Number: I.761**

Id Number: I761-03

Organization: **Cisco Systems Inc**  
Main Contact: **Mr. Robert Barr, Patent Counsel**  
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Fax. No.: +1 408 525 1003  
E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Australia.)

Patent Title: **Asynchronous transfer mode communication in inverse multiplexing over multiple communication links**

Patent Number: **5 970 067**

Patent Country: **United States**

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in March 2000.**

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**Recommendation Number: J.83**

Id Number: J083-01

Organization: **Zenith Electronics Corp.**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.02.1995**

Remarks:

-----

**Recommendation Number: J.83**

Id Number: J083-02

Organization: **Zenith Electronics Corp.**

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E-mail: jack.kail@zenith.com

Licensing declaration: Pat. pol. 2.2

Patent Title: **VSB HDTV transmission system with reduced NTSC co-channel interference**

Patent Number: **5 087 975**

Patent Country: **United States**

Date Patent Statement Received: **16.05.1995**

Remarks:  
-----

**Recommendation Number: J.83**

Id Number: J083-03

Organization: **Zenith Electronics Corp.**

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E-mail: jack.kail@zenith.com

Licensing declaration: Pat. pol. 2.2

Patent Title: **Digital TV synchronization system and method**

Patent Number: **5 416 524**

Patent Country: **United States**

Date Patent Statement Received: **16.05.1995**

Remarks:  
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**Recommendation Number: J.83**

Id Number: J083-04

Organization: **Zenith Electronics Corp.**

Main Contact: **Mr. Jack Kail, Chief Patent Counsel, Patent Dept.**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Synchronization identification circuit for digital TV signal**

Patent Number: **08/324 054 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **16.05.1995**

Remarks:  
-----

**Recommendation Number: J.83**

Id Number: J083-05

Organization: **Zenith Electronics Corp.**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Data frame format for a digital signal having multiple data constellations**

Patent Number: **08/417 581 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **16.05.1995**

Remarks:  
-----

**Recommendation Number: J.84**

Id Number: J084-01

Organization: **Zenith Electronics Corp.**

Main Contact: **Mr. Jack Kail, Chief Patent Counsel, Patent Dept.**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.05.1995**

Remarks:

-----

**Recommendation Number: J.84**

Id Number: J084-02

Organization: **Zenith Electronics Corp.**

Main Contact: **Mr. Jack Kail, Chief Patent Counsel, Patent Dept.**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **VSB HDTV transmission system with reduced NTSC co-channel interference**

Patent Number: **5 087 975**

Patent Country: **United States**

Date Patent Statement Received: **16.05.1995**

Remarks:  
-----

**Recommendation Number: J.84**

Id Number: J084-03

Organization: **Zenith Electronics Corp.**

Main Contact: **Mr. Jack Kail, Chief Patent Counsel, Patent Dept.**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Digital TV synchronization system and method**

Patent Number: **5 416 524**

Patent Country: **United States**

Date Patent Statement Received: **16.05.1995**

Remarks:  
-----

**Recommendation Number: J.84**

Id Number: J084-04

Organization: **Zenith Electronics Corp.**

Main Contact: **Mr. Jack Kail, Chief Patent Counsel, Patent Dept.**

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E-mail: jack.kail@zenith.com

Licensing declaration: Pat. pol. 2.2

Patent Title: **Synchronization identification circuit for digital TV signal**

Patent Number: **08/324 054 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **16.05.1995**

Remarks:  
-----

**Recommendation Number: J.84**

Id Number: J084-05

Organization: **Zenith Electronics Corp.**

Main Contact: **Mr. Jack Kail, Chief Patent Counsel, Patent Dept.**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Data frame format for a digital signal having multiple data constellations**

Patent Number: **08/417 581 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **16.05.1995**

Remarks:  
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**Recommendation Number: J.88**

Id Number: J088-01

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Adaptive encoding system of moving picture frame**

Patent Number: **5 309 231**

Patent Country: **United States**

Date Patent Statement Received: **06.06.1997**

Remarks:  
-----



**Recommendation Number: J.88**

Id Number: J088-02

Organization: **KDDI Corporation**

Main Contact: **Mr. Tetsuya Kondoh, Intellectual Property Department, Legal & Intellectual Division**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Direct encoding system of composite video signal using inter-frame motion compensation**

Patent Number: **5 475 430**

Patent Country: **United States**

Date Patent Statement Received: **06.06.1997**

Remarks:  
-----

**Recommendation Number: J.88**

Id Number: J088-03

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Quantizer designed by using human visual sensitivity**

Patent Number: **5 557 276**

Patent Country: **United States**

Date Patent Statement Received: **06.06.1997**

Remarks:  
-----

**Recommendation Number: J.88**

Id Number: J088-04

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Moving picture encoder**

Patent Number: **5 576 766**

Patent Country: **United States**

Date Patent Statement Received: **06.06.1997**

Remarks:  
-----

**Recommendation Number: J.88**

Id Number: J088-05

Organization: **KDDI Corporation**

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E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2

Patent Title: **Motion adaptive noise reduction filter and motion compensated interframe coding system using the same**

Patent Number: **5 568 196**

Patent Country: **United States**

Date Patent Statement Received: **06.06.1997**

Remarks:  
-----

**Recommendation Number: J.112**

Id Number: J112-02

Organization: **Motorola**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. For Amendment 1 to Annex B)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **31.10.2000**

Remarks:

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**Recommendation Number: J.112**

Id Number: J112-03

Organization: **Vyyo INC.**  
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E-mail: cshirali@vyyo.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity. For Amendment 1 to Annex B)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **06.11.2000**

Remarks:

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**Recommendation Number: J.117**

Id Number: J117-01

Organization: **Digital Transmission Licensing Administrator, LLC**  
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Fax. No.: +1 503 264 4151  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title:

Patent Number:

Patent Country: **United States**

Date Patent Statement Received: **16.09.1999**

Remarks:  
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**Recommendation Number: J.144**

Id Number: J144-01

Organization: **United States Department of Commerce**

Main Contact: **National Telecommunications and Information Administration, Institute for Telecommunication Sciences**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Perception-based video quality measurement system**

Patent Number: **5 446 492**

Patent Country: **United States**

Date Patent Statement Received: **10.09.1999**

Remarks:  
-----



**Recommendation Number: J.144**

Id Number: J144-02

Organization: **United States Department of Commerce**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Perception-based audiovisual synchronization measurement system**

Patent Number: **5 596 364**

Patent Country: **United States**

Date Patent Statement Received: **10.09.1999**

Remarks:  
-----

**Recommendation Number: J.144**

Id Number: J144-03

Organization: **United States Department of Commerce**

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E-mail: avincent@its.bldrdoc.gov

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **In-service video quality measurement system utilizing an arbitrary bandwidth ancillary data channel**

Patent Number: **6 496 221**

Patent Country: **United States**

Date Patent Statement Received: **10.09.1999**

Remarks:  
-----

**Recommendation Number: J.144**

Id Number: J144-04

Organization: **Tektronix Inc.**  
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E-mail: ed.ohlmann@tektronix.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Germany, Japan, and France.)

Patent Title: **Programmable instrument for automatic measurement of compressed video quality**

Patent Number: **5 818 520**

Patent Country: **United States**

Date Patent Statement Received: **14.04.2003**

Remarks:  
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**Recommendation Number: J.144**

Id Number: J144-05

Organization: **Tektronix Inc.**  
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Fax. No.: +1 503 627 7119  
E-mail: ed.ohlmann@tektronix.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **High precision image alignment protection**

Patent Number: **6 295 083**

Patent Country: **United States**

Date Patent Statement Received: **14.04.2003**

Remarks:  
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**Recommendation Number: J.144**

Id Number: J144-06

Organization: **Sarnoff Corporation**  
Main Contact: **Mr. William J. Burke, Vice President, Patents & Licensing**  
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Fax. No.: +1 609 734 2673  
E-mail: wburke@sarnoff.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Methods and apparatus for assessing the visibility of differences between two image sequences**

Patent Number: **5 695 491 (appl. No.)**

Patent Country: **United States**

Date Patent Statement Received: **20.01.2004**

Remarks:  
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**Recommendation Number: J.144**

Id Number: J144-07

Organization: **Sarnoff Corporation**  
Main Contact: **Mr. William J. Burke, Vice President, Patents & Licensing**  
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Fax. No.: +1 609 734 2673  
E-mail: wburke@sarnoff.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Methods and apparatus for assessing the visibility of differences between two image sequences**

Patent Number: **5 974 159**

Patent Country: **United States**

Date Patent Statement Received: **20.01.2004**

Remarks:  
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**Recommendation Number: J.144**

Id Number: J144-08

Organization: **Sarnoff Corporation**  
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Address: 201 Washington Road  
Princeton, NJ 08540  
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Fax. No.: +1 609 734 2673  
E-mail: wburke@sarnoff.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Apparatus for assessing the visibility of differnces between two image sequences**

Patent Number: **5 719 966**

Patent Country: **United States**

Date Patent Statement Received: **20.01.2004**

Remarks:  
-----

**Recommendation Number: J.144**

Id Number: J144-09

Organization: **Sarnoff Corporation**  
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Fax. No.: +1 609 734 2673  
E-mail: wburke@sarnoff.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Methods and apparatus for assessing the visibility of differences between two image sequences**

Patent Number: **6 137 904**

Patent Country: **United States**

Date Patent Statement Received: **20.01.2004**

Remarks:  
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**Recommendation Number: J.144**

Id Number: J144-10

Organization: **KDDI Corporation**  
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Fax. No.: +81 3 3347 7256  
E-mail: te-kondoh@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US.)

Patent Title: **Appratus for evaluating digital picture quality**

Patent Number: **34 58 600**

Patent Country: **Japan**

Date Patent Statement Received: **12.02.2004**

Remarks:  
-----

**Recommendation Number: J.144**

Id Number: J144-11

Organization: **KDDI Corporation**

Main Contact: **Mr. Tetsuya Kondoh, Intellectual Property Department, Legal & Intellectual Division**

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E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US.)

Patent Title: **Video quality evaluating equipment for reproduced image of video signal subject to digital compression**

Patent Number: **30 25 415**

Patent Country: **Japan**

Date Patent Statement Received: **12.02.2004**

Remarks:  
-----

**Recommendation Number: J.144**

Id Number: J144-12

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan.)

Patent Title: **Video quality abnormality detection method and apparatus**

Patent Number: **63 77 299**

Patent Country: **United States**

Date Patent Statement Received: **12.02.2004**

Remarks:  
-----

**Recommendation Number: J.144**

Id Number: J144-13

Organization: **KDDI Corporation**

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E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for detecting synchronization shift between original image and reproduced image of video signal**

Patent Number: **64 89 988**

Patent Country: **United States**

Date Patent Statement Received: **12.02.2004**

Remarks:  
-----

**Recommendation Number: J.144**

Id Number: J144-14

Organization: **Yonsei University**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Appratus and methods for objective measurement of video quality**

Patent Number: **10-2--3-0013188 (appl. No.)**

Patent Country: **Korea**

Date Patent Statement Received: **21.01.2004**

Remarks:

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**Recommendation Number: J.144**

Id Number: J144-15

Organization: **Yonsei University**

Main Contact: **Mr. Chulhee Lee, Dept. Electrical and Electronic Eng.,**

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E-mail: chulhee@yonsei.ac.kr

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and systems for objective assessment of video quqlity**

Patent Number: **10 382 377 (appl. No.)**

Patent Country: **United States**

Date Patent Statement Received: **21.01.2004**

Remarks:

-----

**Recommendation Number: J.144**

Id Number: J144-16

Organization: **Yonsei University**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Systems and methods for objective assessment of video quality**

Patent Number: **10-2003-0061909 (appl. No.)**

Patent Country: **Korea**

Date Patent Statement Received: **21.01.2004**

Remarks:

-----

**Recommendation Number: J.144**

Id Number: J144-17

Organization: **British Telecommunications, plc**

Main Contact: **BT Group Legal**

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Fax. No.: +41 20 7600 6891

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and system for video quality assessment**

Patent Number: **013 14 161.1 (appl. No.)**

Patent Country: **UK**

Date Patent Statement Received: **11.02.2004**

Remarks:  
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**Recommendation Number: J.144**

Id Number: J144-18

Organization: **British Telecommunications, plc**

Main Contact: **BT Group Legal**

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E-mail: martin.2.read@bt.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Edge analysis in video quality assessment**

Patent Number: **03 14 162.9 (appl. No.)**

Patent Country: **UK**

Date Patent Statement Received: **11.02.2004**

Remarks:  
-----

**Recommendation Number: J.147**

Id Number: J147-01

Organization: **Tektronix Inc.**  
Main Contact: **Mr. Edward F. Ohlmann, Deirector of Licensing**  
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E-mail: ed.ohlmann@tektronix.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in GB, DE and JP.)

Patent Title: **Embedment of Data in a Video Signal**

Patent Number: **4 969 041**

Patent Country: **United States**

Date Patent Statement Received: **15.01.2003**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

-----

**Recommendation Number: J.147**

Id Number: J147-02

Organization: **Tektronix Inc.**  
Main Contact: **Mr. Edward F. Ohlmann, Deirector of Licensing**  
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Fax. No.: +1 503 627 7119  
E-mail: ed.ohlmann@tektronix.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Transpaent Embedment of Data in a Video signal**

Patent Number: **6 211 919**

Patent Country: **United States**

Date Patent Statement Received: **15.01.2003**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

-----

**Recommendation Number: J.147**

Id Number: J147-03

Organization: **Tektronix Inc.**  
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Fax. No.: +1 503 627 7119  
E-mail: ed.ohlmann@tektronix.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe and JP.)

Patent Title: **Transpaent Embedment of Data in a Video signal**

Patent Number: **6 246 439**

Patent Country: **United States**

Date Patent Statement Received: **15.01.2003**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

-----

**Recommendation Number: J.147**

Id Number: J147-04

Organization: **Tektronix Inc.**  
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E-mail: ed.ohlmann@tektronix.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **Picture Quality Monitoring System**

Patent Number: **6 055 848**

Patent Country: **United States**

Date Patent Statement Received: **14.04.2003**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

-----

**Recommendation Number: J147**

Id Number: J147-05

Organization: **KDDI Corporation**

Main Contact: **Mr. Tetsuya Kondoh, Intellectual Property Department, Legal & Intellectual Division**

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Fax. No.: +81 3 6678 0319

E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Devices for image processing and picture quality measurement**

Patent Number: **2002-16946 (app. No)**

Patent Country: **Japan**

Date Patent Statement Received: **17.04.2003**

Remarks:

**Received after the approval of the Recommendation in July 2002.**

-----

**Recommendation Number: J.151**

Id Number: J151-01

Organization: **Zenith Electronics Corp.**

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Fax. No.: +1 847 391 8003

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.05.2000**

Remarks:  
-----

**Recommendation Number: J.175**

Id Number: J175-01

Organization: **Nortel Networks Limited**  
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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method & system for providing Access to stored audio data over a network**

Patent Number: **EP 1 096 766 A2 (appl. no.)**

Patent Country: **Europe**

Date Patent Statement Received: **05.06.2002**

Remarks:  
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**Recommendation Number: J.178**

Id Number: J178-01

Organization: **AT&T Corp.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.04.2003**

Remarks:

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**Recommendation Number: J.183**

Id Number: J183-01

Organization: **Nippon Hoso Kyokai (Japan Broadcasting Corp.)**

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E-mail: kuroda@intl.nhk.or.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Multiplexing Device and Demultiplexing for Plural Transport Streams**

Patent Number: **3051729**

Patent Country: **Japan**

Date Patent Statement Received: **09.02.2001**

Remarks:

-----

**Recommendation Number: J.188**

Id Number: J188-01

Organization: **KDDI Corporation**

Main Contact: **Mr. Tetsuya Kondoh, Intellectual Property Department, Legal & Intellectual Division**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US.)

Patent Title: **Video transmission system using plural links**

Patent Number: **2000-232648 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **27.06.2001**

Remarks:

-----

**Recommendation Number: J.188**

Id Number: J188-02

Organization: **KDDI Corporation**  
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Fax. No.: +81 3 3347 7256  
E-mail: te-kondoh@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US.)

Patent Title: **Device for objectively evaluating the quality of a digital transmitted picture**

Patent Number: **2001-086534 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **27.06.2001**

Remarks:  
-----

**Recommendation Number: J.188**

Id Number: J188-03

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US, Europe.)

Patent Title: **Image failure detection unit in redundant duplex transmission**

Patent Number: **2000-350238 (appl. No.)**

Patent Country: **Japan**

Date Patent Statement Received: **27.06.2001**

Remarks:  
-----

**Recommendation Number: J.188**

Id Number: J188-04

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Device for adjusting the positions of video signals in plural links**

Patent Number: **2000-332666 (appl. No.)**

Patent Country: **Japan**

Date Patent Statement Received: **27.06.2001**

Remarks:  
-----

**Recommendation Number: J.189**

Id Number: J189-01

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in USA.)

Patent Title: **Digital compressed picture switcher**

Patent Number: **2000-69426 (pub No.)**

Patent Country: **Japan**

Date Patent Statement Received: **18.03.2002**

Remarks:  
-----

**Recommendation Number: J.189**

Id Number: J189-02

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Digital compressed picture bitstream re-encoder**

Patent Number: **2000-263901**

Patent Country: **Japan**

Date Patent Statement Received: **18.03.2002**

Remarks:  
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**Recommendation Number: J.240**

Id Number: J240-01

Organization: **Tektronix Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in UK, Germany and Japan.)

Patent Title: **Embedment of data in a video signal**

Patent Number: **4 969 041**

Patent Country: **United States**

Date Patent Statement Received: **14.04.2003**

Remarks:  
-----

**Recommendation Number: J.240**

Id Number: J240-02

Organization: **Tektronix Inc.**  
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E-mail: ed.ohlmann@tektronix.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Transpaent embedment of data in a video signal**

Patent Number: **6 211 919**

Patent Country: **United States**

Date Patent Statement Received: **14.04.2003**

Remarks:  
-----

**Recommendation Number: J.240**

Id Number: J240-03

Organization: **Tektronix Inc.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and Europe.)

Patent Title: **Transparent embedment of data in a video signal**

Patent Number: **6 246 439**

Patent Country: **United States**

Date Patent Statement Received: **14.04.2003**

Remarks:  
-----

**Recommendation Number: J.240**

Id Number: J240-04

Organization: **Tektronix Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Germany, Japan, and France.)

Patent Title: **Picture quality monitoring system**

Patent Number: **6 055 848**

Patent Country: **United States**

Date Patent Statement Received: **14.04.2003**

Remarks:

-----

**Recommendation Number: J.240**

Id Number: J240-05

Organization: **United States Department of Commerce**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **In-service video quality measurement system utilizing an arbitrary bandwidth ancillary data channel**

Patent Number: **6 496 221**

Patent Country: **United States**

Date Patent Statement Received: **14.01.2004**

Remarks:  
-----

**Recommendation Number: J.240**

Id Number: J240-06

Organization: **United States Department of Commerce**

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Fax. No.: +1 303 497 5993

E-mail: avincent@its.bldrdoc.gov

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Perception-based video quality measurement system**

Patent Number: **5 446 492**

Patent Country: **United States**

Date Patent Statement Received: **14.01.2004**

Remarks:  
-----

**Recommendation Number: J.240**

Id Number: J240-07

Organization: **KDDI Corporation**

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E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Apparatus for monitoring quality of picture transmission**

Patent Number: **55333/2002 (appl. No.)**

Patent Country: **Japan**

Date Patent Statement Received: **22.01.2004**

Remarks:  
-----

**Recommendation Number: J.240**

Id Number: J240-08

Organization: **KDDI Corporation**

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E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in US, Canada and Europe.)

Patent Title: **Apparatus for monitoring quality of picture transmission**

Patent Number: **272034/2001**

Patent Country: **Japan**

Date Patent Statement Received: **22.01.2004**

Remarks:  
-----



**Recommendation Number: J.noref**

Id Number: Jnoref-01

Organization: **United States Department of Commerce**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Perception-based video quality measurement system**

Patent Number: **5 446 492**

Patent Country: **United States**

Date Patent Statement Received: **10.09.1999**

Remarks:

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**Recommendation Number: J.noref**

Id Number: Jnoref-02

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Perception-based audiovisual synchronization measurement system**

Patent Number: **5 596 364**

Patent Country: **United States**

Date Patent Statement Received: **10.09.1999**

Remarks:  
-----

**Recommendation Number: J.noref**

Id Number: Jnoref-03

Organization: **United States Department of Commerce**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **In-service video quality measurement system utilizing an arbitrary bandwidth ancillary data channel**

Patent Number: **60/106 672 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **10.09.1999**

Remarks:  
-----

**Recommendation Number: J.ovq-req**

Id Number: Jovq-req-01

Organization: **United States Department of Commerce**

Main Contact: **National Telecommunications and Information Administration, Institute for Telecommunication Sciences**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Perception-based video quality measurement system**

Patent Number: **5 446 492**

Patent Country: **United States**

Date Patent Statement Received: **13.09.1999**

Remarks:  
-----

**Recommendation Number: J.ovq-req**

Id Number: Jovq-req-02

Organization: **United States Department of Commerce**

Main Contact: **National Telecommunications and Information Administration, Institute for Telecommunication Sciences**

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E-mail: avincent@its.bldrdoc.gov

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Perception-based audiovisual synchronization measurement system**

Patent Number: **5 596 364**

Patent Country: **United States**

Date Patent Statement Received: **13.09.1999**

Remarks:  
-----

**Recommendation Number: J.ovq-req**

Id Number: Jovq-req-03

Organization: **United States Department of Commerce**

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E-mail: avincent@its.bldrdoc.gov

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **In-service video quality measurement system utilizing an arbitrary bandwidth ancillary data channel**

Patent Number: **60/106 672 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **13.09.1999**

Remarks:

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**Recommendation Number: J.redref**

Id Number: Jredref-01

Organization: **United States Department of Commerce**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Perception-based video quality measurement system**

Patent Number: **5 446 492**

Patent Country: **United States**

Date Patent Statement Received: **10.09.1999**

Remarks:  
-----

**Recommendation Number: J.redref**

Id Number: Jredref-02

Organization: **United States Department of Commerce**

Main Contact: **National Telecommunications and Information Administration, Institute for Telecommunication Sciences**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Perception-based audiovisual synchronization measurement system**

Patent Number: **5 596 364**

Patent Country: **United States**

Date Patent Statement Received: **10.09.1999**

Remarks:  
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**Recommendation Number: J.redref**

Id Number: Jredref-03

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **In-service video quality measurement system utilizing an arbitrary bandwidth ancillary data channel**

Patent Number: **60/106 672 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **10.09.1999**

Remarks:  
-----

**Recommendation Number: J.redref**

Id Number: Jredref-04

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Fax. No.: +81 3 3347 7256  
E-mail: te-kondoh@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Devices for Image Processing and Picture Quality Measurement**

Patent Number: **2000-194710 (appl. No.)**

Patent Country: **Japan**

Date Patent Statement Received: **27.06.2001**

Remarks:  
-----

**Recommendation Number: J.redref**

Id Number: Jredref-05

Organization: **KDDI Corporation**

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Fax. No.: +81 3 6678 0319

E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Method for Detecting Marker Signal Degradation and Devices for Picture Quality Measurement**

Patent Number: **2000-45458 (appl. No.)**

Patent Country: **Japan**

Date Patent Statement Received: **27.06.2001**

Remarks:  
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**Recommendation Number: L.48**

Id Number: L048-01

Organization: **Corning Cable Systems Technologies Incorporated**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Geraet zum Verlegen von Kabeln**

Patent Number: **EP 19822001.4 (appl. no.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.02.2003**

Remarks: This statement replaces L048-01 (10/Dec./01 op.2.3).

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**Recommendation Number: L.49**

Id Number: L049-01

Organization: **Corning Cable Systems Technologies Incorporated**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Method of introducing optical cable into a solid bed**

Patent Number: **EP 96945983.3 (appl. no.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.02.2003**

Remarks: This statement replaces L049-01 (10/Dec./01 op.2.3).

-----

**Recommendation Number: L.49**

Id Number: L049-02

Organization: **Corning Cable Systems Technologies Incorporated**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Cable joint for optical fibres with splicing cassettes and overlength loops**

Patent Number: **EP 0875015**

Patent Country: **Europe**

Date Patent Statement Received: **19.02.2003**

Remarks: This statement replaces L049-02(10/Dec./01 op.2.3).

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**Recommendation Number: L.49**

Id Number: L049-03

Organization: **Corning Cable Systems Technologies Incorporated**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Verfahren zum Einbringen eines optischen oder elektrischen Kabels in einen festen Verlegegrund und Vorrichtung zum Veregen des Kabels**

Patent Number: **EP 0855772**

Patent Country: **Europe**

Date Patent Statement Received: **19.02.2003**

Remarks: This statement replaces L049-03 (10/Dec./01 op.2.3).  
-----

**Recommendation Number: L.49**

Id Number: L049-04

Organization: **Corning Cable Systems Technologies Incorporated**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **Einlegevorrichtung zum Einlegen eines langgestreckten Schutzprofils oberhalb eines in einer Verlegenut verlegten Kabels**

Patent Number: **EP 98121105.5 (appl. no.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.02.2003**

Remarks: This statement replaces L049-04 (10/Dec./01 op.2.3).

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**Recommendation Number: L.49**

Id Number: L049-05

Organization: **Corning Cable Systems Technologies Incorporated**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method of introducing optical cable into a solid bed**

Patent Number: **EP 1211772 (appl.no)**

Patent Country: **Europe**

Date Patent Statement Received: **19.02.2003**

Remarks:

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**Recommendation Number: M.2140**

Id Number: M2140-01

Organization: **WorldCom**

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Fax. No.: +1 202 736 6382

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System and method for reported trouble isolation**

Patent Number: **5,704,036**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
-----

**Recommendation Number: M.2140**

Id Number: M2140-02

Organization: **WorldCom**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System method and computer program product for processing faults in a hierarchial network**

Patent Number: **5,778,184**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
-----

**Recommendation Number: M.2140**

Id Number: M2140-03

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System and method for unreported trouble isolation**

Patent Number: **5,784,359**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
-----

**Recommendation Number: M.2140**

Id Number: M2140-04

Organization: **WorldCom**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System and method for formatting performance data in a telecommunications system**

Patent Number: **5,864,608**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
-----

**Recommendation Number: M.2140**

Id Number: M2140-05

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System and method for reported root cause analysis**

Patent Number: **5,864, 662**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
-----

**Recommendation Number: M.2140**

Id Number: M2140-06

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Enhanced problem alert signals**

Patent Number: **5,872,912**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
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**Recommendation Number: M.2140**

Id Number: M2140-07

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Raw performance monitoring correlated problem alert signals**

Patent Number: **5,913,036**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
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**Recommendation Number: M.2140**

Id Number: M2140-08

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System and method for unreported root cause analysis**

Patent Number: **6,072,777**

Patent Country: **United States**

Date Patent Statement Received: **12.04.2002**

Remarks:  
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**Recommendation Number: P.57**

Id Number: P057-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe and Denmark)

Patent Title: **Kunstkopf-Messsystem**

Patent Number: **35 093 76**

Patent Country: **Germany**

Date Patent Statement Received: **08.10.2001**

Remarks:  
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**Recommendation Number: P.58**

Id Number: P058-01

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.02.1991**

Remarks:

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**Recommendation Number: P.58**

Id Number: P058-02

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Licensing declaration: No patents held

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **26.09.1990**

Remarks:

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**Recommendation Number: P.501**

Id Number: P501-01

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number: **4 449 231**

Patent Country: **United States**

Date Patent Statement Received: **09.02.1996**

Remarks:

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**Recommendation Number: P.562**

Id Number: P562-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.07.2001**

Remarks:

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**Recommendation Number: P.563**

Id Number: P563-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Auditory-articulatory analysis for speech quality assessment**

Patent Number: **pending**

Patent Country: **United States**

Date Patent Statement Received: **24.10.2003**

Remarks:  
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**Recommendation Number: P.563**

Id Number: P563-02

Organization: **Lucent Technologies Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Compensation of utterance-dependent articulation for speech quality assessment**

Patent Number: **pending**

Patent Country: **United States**

Date Patent Statement Received: **24.10.2003**

Remarks:  
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**Recommendation Number: P.563**

Id Number: P56303

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe and the United States, Japan, Canada, Hong Kong and China.)

Patent Title: **Signal quality determining device and method**

Patent Number: **08 15 707**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:  
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**Recommendation Number: P.563**

Id Number: P563-04

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe and the United States, Japan, Canada, Hong Kong and China.)

Patent Title: **Signal quality determining device and method**

Patent Number: **08 15 705**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:  
-----

**Recommendation Number: P.563**

Id Number: P563-05

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan, Canda and USA.)

Patent Title: **Method and device for determining the quality of a signal**

Patent Number: **09 83 281.7 (appl. No.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:  
-----

**Recommendation Number: P.563**

Id Number: P563-06

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity.)

Patent Title: **A method of a device for output based objective speech quality assessment**

Patent Number: **02 03 109.4 (appl. No.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:

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**Recommendation Number: P.563**

Id Number: P563-07

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and USA.)

Patent Title: **A method of a device for output based objective speech quality assessment**

Patent Number: **01 98 22 39.4 (appl. No)**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:

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**Recommendation Number: P.563**

Id Number: P563-08

Organization: **Psytechnics Limited**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.03.2004**

Remarks:

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**Recommendation Number: P.563**

Id Number: P563-09

Organization: **Opticom**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **23.03.2004**

Remarks:  
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**Recommendation Number: P.833**

Id Number: P833-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity, Copyright of CR10 scale in the Appendix )

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **06.11.2000**

Remarks:

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**Recommendation Number: P.861**

Id Number: P861-01

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **25.09.1995**

Remarks:

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**Recommendation Number: P.861**

Id Number: P861-02

Organization: **United States Department of Commerce**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Audio signal time offset estimation algorithm and measuring normalizing block algorithms for the perceptually consistent comparison of speech signals**

Patent Number: **60/059 708 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **23.02.1998**

Remarks:

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**Recommendation Number: P.861**

Id Number: P861-03

Organization: **Ascom Management AG - ALP**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Verfahren zur Durchführung einer maschinengestützten Beurteilung der Übertragungsqualität von Audiosignalen**

Patent Number: **98-810589 (appl. no.)**

Patent Country: **Europe**

Date Patent Statement Received: **15.12.1998**

Remarks:  
-----

**Recommendation Number: P.861**

Id Number: P861-04

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.10.1999**

Remarks:

-----

**Recommendation Number: P.861**

Id Number: P861-05

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.11.1999**

Remarks:

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**Recommendation Number: P.861**

Id Number: P861-06

Organization: **Ericsson, Telefonaktiebolaget LM**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.10.1999**

Remarks:

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**Recommendation Number: P.861**

Id Number: P861-07

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe, USA and Canada)

Patent Title: **Verfahren Zur instrumentellen (objektiven) Sprachqualitätsbestimmung**

Patent Number: **198 40 548**

Patent Country: **Germany**

Date Patent Statement Received: **21.01.2000**

Remarks:  
-----

**Recommendation Number: P.861**

Id Number: P861-08

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada, USA, China, Japan and Europe)

Patent Title: **Signal quality determining device and method**

Patent Number: **0815707**

Patent Country: **Netherlands**

Date Patent Statement Received: **16.05.2003**

Remarks:

**Received after the approval of the Recommendation in February 1998.**

-----



**Recommendation Number: P.861**

Id Number: P861-09

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada, USA, China, Japan and Europe)

Patent Title: **Signal quality determining device and method**

Patent Number: **0815705**

Patent Country: **Netherlands**

Date Patent Statement Received: **16.05.2003**

Remarks:

**Received after the approval of the Recommendation in February 1998.**

-----

**Recommendation Number: P.862**

Id Number: P862-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.06.2000**

Remarks:

-----

**Recommendation Number: P.862**

Id Number: P862-02

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in Europe, US and Canda)

Patent Title: **Verfahren zur instrumentellen (objektiven) Sprachqualltatsbestimmung**

Patent Number: **198 40 548**

Patent Country: **Germany**

Date Patent Statement Received: **17.01.2001**

Remarks:  
-----

**Recommendation Number: P.862**

Id Number: P862-03

Organization: **Psytechnics Limited**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.07.2001**

Remarks:

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**Recommendation Number: P.862**

Id Number: P862-04

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.06.2002**

Remarks:

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**Recommendation Number: P.862**

Id Number: P862-05

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.01.2003**

Remarks:  
-----

**Recommendation Number: P.862**

Id Number: P862-06

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada, USA, China, Japan and Europe)

Patent Title: **Signal quality determining device and method**

Patent Number: **0815707**

Patent Country: **Netherlands**

Date Patent Statement Received: **16.05.2003**

Remarks:

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**Recommendation Number: P.862**

Id Number: P862-07

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada, USA, China, Japan and Europe)

Patent Title: **Signal quality determining device and method**

Patent Number: **0815705**

Patent Country: **Netherlands**

Date Patent Statement Received: **16.05.2003**

Remarks:

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**Recommendation Number: P.862**

Id Number: P862-08

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in USA.)

Patent Title: **Determination of the time relation between speech signals affected by time wrapping**

Patent Number: **99 20 40 89.9 (appl. No.)**

Patent Country: **Europe**

Date Patent Statement Received: **16.05.2003**

Remarks:  
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**Recommendation Number: P.862**

Id Number: P862-09

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada, USA, Japan and Europe)

Patent Title: **Method and device for determining the quality of a signal**

Patent Number: **1014075**

Patent Country: **Netherlands**

Date Patent Statement Received: **16.05.2003**

Remarks:

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**Recommendation Number: P.931**

Id Number: P931-01

Organization: **United States Department of Commerce**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Audio signal time offset estimation algorithm and measuring normalizing block algorithms for the perceptually consistent comparison of speech signals**

Patent Number: **60/059 708 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **19.02.1998**

Remarks:

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**Recommendation Number: P.931**

Id Number: P931-02

Organization: **United States Department of Commerce**

Main Contact: **National Telecommunications and Information Administration, Institute for Telecommunication Sciences**

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Perception-based audiovisual synchronization measurement system**

Patent Number: **5 596 364**

Patent Country: **United States**

Date Patent Statement Received: **19.02.1998**

Remarks:  
-----

**Recommendation Number: P.931**

Id Number: P931-03

Organization: **United States Department of Commerce**

Main Contact: **National Telecommunications and Information Administration, Institute for Telecommunication Sciences**

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E-mail: avincent@its.bldrdoc.gov

Licensing declaration: Pat. pol. 2.2

Patent Title: **Perception-based video quality measurement system**

Patent Number: **5 446 492**

Patent Country: **United States**

Date Patent Statement Received: **19.02.1998**

Remarks:  
-----

**Recommendation Number: P.aam**

Id Number: Paam-01

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe and the United States, Japan, Canada, Hong Kong and China.)

Patent Title: **Signal quality determining device and method**

Patent Number: **08 15 707**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:  
-----

**Recommendation Number: P.aam**

Id Number: Paam-02

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: at. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe and the United States, Japan, Canada, Hong Kong and China.)

Patent Title: **Signal quality determining device and method**

Patent Number: **08 15 705**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:  
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**Recommendation Number: P.aam**

Id Number: Paam-03

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Determination of the time relation between speech signals affected by time**

Patent Number: **99 20 40 89.9 (appl. No.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:

-----



**Recommendation Number: P.aam**

Id Number: Paam-04

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in USA and Canada.)

Patent Title: **Determination of the time relation between speech signals affected by time**

Patent Number: **09 72 888.2 (appl. No.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:  
-----

**Recommendation Number: P.aam**

Id Number: Paam-05

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan, Canada and USA.)

Patent Title: **Method and device for determining the quality of a signal**

Patent Number: **09 83 281.7 (appl. No.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:

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**Recommendation Number: P.aam**

Id Number: Paam-06

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada and China.)

Patent Title: **Method and device for determining the quality of a signal**

Patent Number: **01 200 945.2 (appl. No.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:  
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**Recommendation Number: P.aam**

Id Number: Paam-07

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and USA.)

Patent Title: **Method and device for determining the quality of a signal**

Patent Number: **02 722 174.6 (appl. No.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:

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**Recommendation Number: P.aam**

Id Number: Paam-08

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada and China.)

Patent Title: **Improved method for determining the quality of a speech signal**

Patent Number: **01 203 699.2 (appl. No.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:  
-----

**Recommendation Number: P.aam**

Id Number: Paam-09

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Japan and USA.)

Patent Title: **Improved method for determining the quality of a speech signal**

Patent Number: **PCT/EP02/05556 (appl. No.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:

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**Recommendation Number: P.aam**

Id Number: Paam-10

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in WO.)

Patent Title: **Method and system for measuring a systems' transmission quality**

Patent Number: **02 07 59 73.8 (appl. No.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:  
-----

**Recommendation Number: P.aam**

Id Number: Paam-11

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. )

Patent Title: **Method and system for speech quality prediction of audio transmission**

Patent Number: **03 07 59 49.2 (appl. No.)**

Patent Country: **Europe**

Date Patent Statement Received: **19.11.2003**

Remarks:  
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**Recommendation Number: Q.Sup50**

Id Number: Q\_sup50\_01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **19.03.2004**

Remarks:

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**Recommendation Number: Q.55**

Id Number: Q0055-01

Organization: **Ericsson, Telefonaktiebolaget LM**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **28.10.1999**

Remarks:

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**Recommendation Number: Q.102.6**

Id Number: Q0102\_6-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received:

Remarks:  
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**Recommendation Number: Q.703**

Id Number: Q0703-01

Organization: **AT&T Corp.**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **12.02.1996**

Remarks: Informed from AT&T on 11 July 2001 that AT&T no longer owns essential IPR for this Recommendation.

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**Recommendation Number: Q.730**

Id Number: Q0730-01

Organization: **Ericsson, Telefonaktiebolaget LM**

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Licensing declaration: Pat. pol. 2.2 (Patent jointly owned by Ericsson, Telia AB, Sweden and KPN)

Patent Title: **A method and a system for use in a telecommunication network**

Patent Number: **WO98/49819(appl.no)**

Patent Country:

Date Patent Statement Received: **30.09.1998**

Remarks:

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**Recommendation Number: Q.730**

Id Number: Q0730-02

Organization: **Telia AB**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **14.12.1998**

Remarks:

-----

**Recommendation Number: Q.730**

Id Number: Q0730-03

Organization: **Telia AB**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Forbättringar av eller avseende telekommunikationstjänster**

Patent Number: **504 405**

Patent Country: **Sweden**

Date Patent Statement Received: **20.09.1999**

Remarks:

-----

**Recommendation Number: Q.730**

Id Number: Q0730-04

Organization: **Telia AB**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Improvements in or relating to telecommunications services**

Patent Number: **EP96 93 85 66 (appl. no.)**

Patent Country: **Europe**

Date Patent Statement Received: **20.09.1999**

Remarks:  
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**Recommendation Number: Q.730**

Id Number: Q0730-05

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Forbedringar i ellerrelatert til telekommunikasjonstjenester**

Patent Number: **97 31 09 (appl. no.)**

Patent Country: **Norway**

Date Patent Statement Received: **20.09.1999**

Remarks:  
-----

**Recommendation Number: Q.730**

Id Number: Q0730-06

Organization: **Telia AB**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Improvements in or relating to telecommunications services**

Patent Number: **08 860 467(appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **20.09.1999**

Remarks:  
-----

**Recommendation Number: Q.730**

Id Number: Q0730-07

Organization: **Koninklijke KPN N.V. (Royal KPN N.V.)**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Patent jointly owned by KPN, Ericsson, Telia AB and Sweden)

Patent Title: **A method and a system for use in a telecommunication network**

Patent Number: **WO98/49819(appl.no)**

Patent Country: **Sweden**

Date Patent Statement Received: **23.11.1999**

Remarks:  
-----

**Recommendation Number: Q.811**

Id Number: Q0811-01

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Licensing declaration: Pat. pol. 2.2

Patent Title: **Automatic detection of reachable network elements**

Patent Number: **5 303 235**

Patent Country: **United States**

Date Patent Statement Received: **27.03.1996**

Remarks:  
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**Recommendation Number: Q.812**

Id Number: Q0812-01

Organization: **Lucent Technologies**  
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Tel. No.: +1 908 903 8037  
Fax. No.: +1 908 903 6329  
E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2

Patent Title: **Automatic detection of reachable network elements**

Patent Number: **5 303 235**

Patent Country: **United States**

Date Patent Statement Received: **27.03.1996**

Remarks:

-----

**Recommendation Number: Q.921**

Id Number: Q0921-01

Organization: **Lucent Technologies**  
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E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Data services retransmission procedure**

Patent Number: **5 222 061**

Patent Country: **United States**

Date Patent Statement Received: **05.09.1997**

Remarks:  
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**Recommendation Number: Q.921**

Id Number: Q0921-02

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.09.1997**

Remarks:  
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**Recommendation Number: Q.1214**

Id Number: Q1214-01

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **25.10.1999**

Remarks:

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**Recommendation Number: Q.1218**

Id Number: Q1218-01

Organization: **Nippon Telegraph and Telephone Corporation**  
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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **25.10.1999**

Remarks:  
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**Recommendation Number: Q.1218**

Id Number: Q1218-02

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **16.11.1999**

Remarks:  
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**Recommendation Number: Q.1224**

Id Number: Q1224-01

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **25.10.1999**

Remarks:  
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**Recommendation Number: Q.1224**

Id Number: Q1224-02

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E-mail: h-ogata@ce.jp.nec.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **16.11.1999**

Remarks:  
-----

**Recommendation Number: Q.1228**

Id Number: Q1228-01

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **25.10.1999**

Remarks:  
-----

**Recommendation Number: Q.1228**

Id Number: Q1228-02

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **16.11.1999**

Remarks:  
-----

**Recommendation Number: Q.1238.2**

Id Number: Q1238\_2-01

Organization: **NEC CORPORATION**

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E-mail: h-ogata@ce.jp.nec.com

Licensing declaration: Pat. Pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. No.)**

Patent Country: **Japan**

Date Patent Statement Received: **13.03.2000**

Remarks:  
-----

**Recommendation Number: Q.1238.2**

Id Number: Q1238\_2-02

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **17.03.2000**

Remarks:  
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**Recommendation Number: Q.1244**

Id Number: Q1244-01

Organization: **WorldCom**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Telecommunications System Having Separate Switch Intelligence & Fabric**

Patent Number: **6,041,109**

Patent Country: **United States**

Date Patent Statement Received: **02.11.2000**

Remarks:  
-----

**Recommendation Number: Q.1244**

Id Number: Q1244-02

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Intelligent Call Platform for an Intelligent Distributed Network Omnibus**

Patent Number: **6,098,094**

Patent Country: **United States**

Date Patent Statement Received: **06.08.2001**

Remarks:  
-----

**Recommendation Number: Q.1244**

Id Number: Q1244-03

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Intelligent Call Platform for an Intelligent Distributed Network**

Patent Number: **6,260,067**

Patent Country: **United States**

Date Patent Statement Received: **06.08.2001**

Remarks:  
-----

**Recommendation Number: Q.1244**

Id Number: Q1244-04

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method of and system for providing services in a communications network**

Patent Number: **6 332 023**

Patent Country: **United States**

Date Patent Statement Received: **15.02.2002**

Remarks:

-----

**Recommendation Number: Q.1248.2**

Id Number: Q1248\_2-01

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **3157633**

Patent Country: **Japan**

Date Patent Statement Received: **16.10.2001**

Remarks:  
-----

**Recommendation Number: Q.1248.2**

Id Number: Q1248\_2-02

Organization: **NEC CORPORATION**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **3157633**

Patent Country: **Japan**

Date Patent Statement Received: **15.10.2001**

Remarks:  
-----

**Recommendation Number: Q.1600**

Id Number: Q1600-01

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **25.10.1999**

Remarks:  
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**Recommendation Number: Q.1600**

Id Number: Q1600-02

Organization: **NEC CORPORATION**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **16.11.1999**

Remarks:  
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**Recommendation Number: Q.1601**

Id Number: Q1601-01

Organization: **Nippon Telegraph and Telephone Corporation**  
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E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **25.10.1999**

Remarks:  
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**Recommendation Number: Q.1601**

Id Number: Q1601-02

Organization: **NEC CORPORATION**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method for detecting interactions between IN services and non-IN**

Patent Number: **93-1473 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **16.11.1999**

Remarks:  
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**Recommendation Number: Q.1901**

Id Number: Q1901-01

Organization: **Nortel Networks Limited**

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E-mail: kevinismi@nortelnetworks.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Service-independent switch interface**

Patent Number: **RO3468 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **14.07.2000**

Remarks:

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**Recommendation Number: Q.1901**

Id Number: Q1901-02

Organization: **Nortel Networks Limited**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Reduction of call setup rate in ATM**

Patent Number: **RO3998 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **14.07.2000**

Remarks:  
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**Recommendation Number: Q.1901**

Id Number: Q1901-03

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Extended trunk switching across multiples switches**

Patent Number: **RO4339 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **14.07.2000**

Remarks:  
-----

**Recommendation Number: Q.1902.2**

Id Number: Q1902\_2-01

Organization: **KDDI Corporation**

Main Contact: **Mr. Tetsuya Kondoh, Intellectual Property Department, Legal & Intellectual Division**

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E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in US.)

Patent Title: **Transmission device control system equipped with high-efficiency coding scheme in communication network**

Patent Number: **1998-322456 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **16.02.2001**

Remarks:  
-----

**Recommendation Number: Q.1902.2**

Id Number: Q1902\_2-02

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Speech coding**

Patent Number: **2327560/UK (appl. no.)**

Patent Country: **United Kingdom**

Date Patent Statement Received: **16.02.2001**

Remarks:  
-----

**Recommendation Number: Q.1902.3**

Id Number: Q1902\_3-01

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in US.)

Patent Title: **Transmission device control system equipped with high-efficiency coding scheme in communication network**

Patent Number: **1998-322456 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **16.02.2001**

Remarks:  
-----



**Recommendation Number: Q.1902.3**

Id Number: Q1902\_3-02

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Speech coding**

Patent Number: **2327560/UK (appl. no.)**

Patent Country: **United Kingdom**

Date Patent Statement Received: **16.02.2001**

Remarks:  
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**Recommendation Number: Q.1980.1**

Id Number: Q1980\_1-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **19.03.2004**

Remarks:  
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**Recommendation Number: Q.2110**

Id Number: Q2110-01

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.12.1993**

Remarks:

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**Recommendation Number: Q.2110**

Id Number: Q2110-02

Organization: **Lucent Technologies**  
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E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Data services retransmission procedure**

Patent Number: **5 222 061**

Patent Country: **United States**

Date Patent Statement Received: **05.09.1997**

Remarks:  
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**Recommendation Number: Q.2111**

Id Number: Q2111-01

Organization: **Siemens**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **24.11.1999**

Remarks:

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**Recommendation Number: Q.2111**

Id Number: Q2111-02

Organization: **Lucent Technologies**  
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Fax. No.: +1 908 903 6329  
E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Data services retransmission procedure**

Patent Number: **5 222 061**

Patent Country: **United States**

Date Patent Statement Received: **03.12.1999**

Remarks:  
-----

**Recommendation Number: Q.2111**

Id Number: Q2111-03

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.12.1999**

Remarks:

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**Recommendation Number: Q.2144**

Id Number: Q2144-01

Organization: **Bellcore**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.09.1994**

Remarks:

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**Recommendation Number: Q.2144**

Id Number: Q2144-02

Organization: **Bellcore**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.04.1995**

Remarks:

-----

**Recommendation Number: Q.2726.3**

Id Number: Q2726\_3-01

Organization: **Ericsson Radio Systems AB**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.04.1996**

Remarks:

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**Recommendation Number: Q.2982**

Id Number: Q2982-01

Organization: **Marconi Communications Limited**  
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E-mail: gerry.lawrence@marcomms.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe, Japan and US.)

Patent Title: **Harmonic Switching**

Patent Number: **228 2027**

Patent Country: **United Kingdom**

Date Patent Statement Received: **03.11.1999**

Remarks:  
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**Recommendation Number: Q.2983**

Id Number: Q2983-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe, Japan and US.)

Patent Title: **Harmonic Switching**

Patent Number: **228 2027**

Patent Country: **United Kingdom**

Date Patent Statement Received: **03.11.1999**

Remarks:  
-----

**Recommendation Number: S.2**

Id Number: S2-01

Organization: **Ascom Telematic AG (ex Hasler AG)**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country: **Switzerland**

Date Patent Statement Received: **01.02.1988**

Remarks: Informed from Ascom on 6 March 2000 that this patent has expired.

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**Recommendation Number: T.30**

Id Number: T030-01

Organization: **Chantilly corporation Ltd.**

Main Contact: **Managing Director**

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Licensing declaration: Pat. pol. 2.2 (To verify if the Facsimile Key Management Scheme is adopted in Rec.)

Patent Title: **Hawthorne key management system (HKM)**

Patent Number:

Patent Country:

Date Patent Statement Received: **20.05.1994**

Remarks:  
-----

**Recommendation Number: T.30**

Id Number: T030-02

Organization: **Chantilly corporation Ltd.**

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Licensing declaration: Pat. pol. 2.2 (To verify if the Stream cipher is adopted in the Rec.)

Patent Title: **Hawthorne facsimile cipher (HFX)**

Patent Number:

Patent Country:

Date Patent Statement Received: **20.05.1994**

Remarks:  
-----

**Recommendation Number: T.30**

Id Number: T030-03

Organization: **NEC CORPORATION**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **06.07.1994**

Remarks:  
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**Recommendation Number: T.30**

Id Number: T030-04

Organization: **Toshiba Corporation**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **JP 61-294906 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **14.07.1994**

Remarks:

-----

**Recommendation Number: T.30**

Id Number: T030-05

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **JP 61-294907 (app. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **14.07.1994**

Remarks:

-----

**Recommendation Number: T.30**

Id Number: T030-06

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Tel. No.: +81 3 3457 2508  
Fax. No.: +81 3 5444 9213  
E-mail: taisuke.kato@toshiba.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **JP 63-171007 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **14.07.1994**

Remarks:

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**Recommendation Number: T.30**

Id Number: T030-07

Organization: **Toshiba Corporation**  
Main Contact: **Intellectual Property Division**  
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Fax. No.: +81 3 5444 9213  
E-mail: taisuke.kato@toshiba.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **87-14222 (appl. no.)**

Patent Country: **Korea**

Date Patent Statement Received: **14.07.1994**

Remarks:

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**Recommendation Number: T.30**

Id Number: T030-08

Organization: **Matsushita Graphic Communication Systems, Inc.**

Main Contact: **Mr. Toshio Yoshida, Intellectual Property Department**

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Japan

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **06.07.1994**

Remarks:

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**Recommendation Number: T.30**

Id Number: T030-09

Organization: **Canon Inc.**

Main Contact: **Mr. Kazuo Tanami, Contract & Licensing Center**

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Japan

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Fax. No.: +81 3 5482 7387

E-mail: tanami.kazuo@canon.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.01.1995**

Remarks:  
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**Recommendation Number: T.30**

Id Number: T030-10

Organization: **Service d'Etudes communes de la Poste et de France Télécom**

Main Contact:

Address: 42, rue des Coutures, BP 6243  
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France

Tel. No.: +33 2 3175 9212

Fax. No.: +33 2 3175 0671

E-mail:

Licensing declaration: Pat. pol. 2.2 (French pat. no.: 93 00867)

Patent Title:

Patent Number: **94 400164.3**

Patent Country: **Europe**

Date Patent Statement Received: **24.09.1996**

Remarks:

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**Recommendation Number: T.30**

Id Number: T030-11

Organization: **Service d'Etudes communes de la Poste et de France Télécom**

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Fax. No.: +33 2 3175 0671

E-mail:

Licensing declaration: Pat. pol. 2.2 (French pat. no.: 93 00868)

Patent Title:

Patent Number: **94 400165.0**

Patent Country: **Europe**

Date Patent Statement Received: **24.09.1996**

Remarks:

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**Recommendation Number: T.30**

Id Number: T030-12

Organization: **NEC CORPORATION**

Main Contact: **Mr. Hideki Ogata, General Manager, Intellectual Property Division, Nec Corporation**

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Fax. No.: +81 3 3456 4903

E-mail: h-ogata@ce.jp.nec.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.11.1993**

Remarks:  
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**Recommendation Number: T.30**

Id Number: T030-13

Organization: **Ricoh Company Ltd**  
Main Contact: **General Manager, Legal Division**  
Address: 1-3-6, Nakamagome, Ohta-ku  
Tokyo 143  
Japan  
Tel. No.: +81 3 3777 8111  
Fax. No.: +81 3 5742 5429  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **31.05.1993**

Remarks:  
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**Recommendation Number: T.30**

Id Number: T030-14

Organization: **Matsushita Graphic Communication Systems, Inc.**

Main Contact: **Mr. Toshio Yoshida, Intellectual Property Department**

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Tokyo 153-8687

Japan

Tel. No.: +81 3 5434 7059

Fax. No.: +81 3 5434 7160

E-mail: toshio.yoshida@rdmg.mgcs.mei.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.11.1993**

Remarks:

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**Recommendation Number: T.30**

Id Number: T030-15

Organization: **Nippon Telegraph and Telephone Corporation**  
Main Contact: **Senior Manager, Intellectual Property Department**  
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Tokyo 163-1419  
Japan  
Tel. No.: +81 3 5353 4379  
Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Data randomization equipment**

Patent Number: **4 850 019**

Patent Country: **United States**

Date Patent Statement Received: **10.02.1997**

Remarks:  
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**Recommendation Number: T.30**

Id Number: T030-16

Organization: **Nippon Telegraph and Telephone Corporation**  
Main Contact: **Senior Manager, Intellectual Property Department**  
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Tokyo 163-1419  
Japan  
Tel. No.: +81 3 5353 4379  
Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2 (Counterparts in UK, Germany, France)

Patent Title: **Data randomization equipment and method**

Patent Number: **EP 221 538**

Patent Country: **Europe**

Date Patent Statement Received: **10.02.1997**

Remarks:  
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**Recommendation Number: T.30**

Id Number: T030-17

Organization: **Nippon Telegraph and Telephone Corporation**  
Main Contact: **Senior Manager, Intellectual Property Department**  
Address: 20-2 Nishishinjuku 3-Chome Shinjuku-ku  
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Japan  
Tel. No.: +81 3 5353 4379  
Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2 (Counterparts in UK, Germany, France)

Patent Title: **Data randomization equipment**

Patent Number: **EP 454 187**

Patent Country: **Europe**

Date Patent Statement Received: **10.02.1997**

Remarks:  
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**Recommendation Number: T.30**

Id Number: T030-18

Organization: **Nippon Telegraph and Telephone Corporation**  
Main Contact: **Senior Manager, Intellectual Property Department**  
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Japan  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Einrichtung zur Verschleierung**

Patent Number: **DE 3 650 365**

Patent Country: **Germany**

Date Patent Statement Received: **10.02.1997**

Remarks:  
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**Recommendation Number: T.30**

Id Number: T030-19

Organization: **Nippon Telegraph and Telephone Corporation**  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Einrichtung und Verfahren zur Verschleierung**

Patent Number: **DE 3 689 510**

Patent Country: **Germany**

Date Patent Statement Received: **10.02.1997**

Remarks:  
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**Recommendation Number: T.30**

Id Number: T030-20

Organization: **Nippon Telegraph and Telephone Corporation**  
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Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Data kakusan souchi**

Patent Number: **JP 1 992 651**

Patent Country: **Japan**

Date Patent Statement Received: **10.02.1997**

Remarks:  
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**Recommendation Number: T.30**

Id Number: T030-21

Organization: **Nippon Telegraph and Telephone Corporation**  
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Japan  
Tel. No.: +81 3 5353 4379  
Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Anngou-ka souchi**

Patent Number: **JP 89-147 585 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **10.02.1997**

Remarks:  
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**Recommendation Number: T.30**

Id Number: T030-22

Organization: **Nippon Telegraph and Telephone Corporation**  
Main Contact: **Senior Manager, Intellectual Property Department**  
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Tokyo 163-1419  
Japan  
Tel. No.: +81 3 5353 4379  
Fax. No.: +81 3 5353 5517  
E-mail: shougai@ipr.rdc.ntt.co.jp

Licensing declaration: Pat. pol. 2.2

Patent Title: **Anngou-ka souchi**

Patent Number: **JP 91-129 384 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **10.02.1997**

Remarks:  
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**Recommendation Number: T.37**

Id Number: T037-01

Organization: **Wordcraft International Limited**  
Main Contact: **Ms. Paula Thorpe, Marketing Manager**  
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United Kingdom  
Tel. No.: +44 1332 371428  
Fax. No.: +44 1332 295 525  
E-mail: paula.thorpe@wordcraft.co.uk

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **97 04 103 (appl.no)**

Patent Country: **United Kingdom**

Date Patent Statement Received: **19.06.1997**

Remarks: Informed from Wordcraft on 20 March 2000 that Wordcraft has no Intellectual property.  
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**Recommendation Number: T.37**

Id Number: T037-02

Organization: **Matsushita Graphic Communication Systems, Inc.**  
Main Contact: **Mr. Toshio Yoshida, Intellectual Property Department**  
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Tel. No.: +81 3 5434 7059  
Fax. No.: +81 3 5434 7160  
E-mail: toshio.yoshida@rdmg.mgcs.mei.co.jp

Licensing declaration: Option 2; Patent holder states that patent is not essential for implementation of Recommendation

Patent Title: **Method, facsimile mail**

Patent Number: **5 812 278**

Patent Country: **United States**

Date Patent Statement Received: **09.02.1999**

Remarks:  
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**Recommendation Number: T.38**

Id Number: T038-01

Organization: **Wordcraft International Limited**  
Main Contact: **Ms. Paula Thorpe, Marketing Manager**  
Address: Park Hill, Hilton Road, Egginton  
Derby DE65 6GU  
United Kingdom  
Tel. No.: +44 1332 371428  
Fax. No.: +44 1332 295 525  
E-mail: paula.thorpe@wordcraft.co.uk

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **97 04 103 (appl.no)**

Patent Country: **United Kingdom**

Date Patent Statement Received: **19.06.1997**

Remarks: Informed from Wordcraft on 20 March 2000 that Wordcraft has no Intellectual property.  
-----

**Recommendation Number: T.39**

Id Number: T039-01

Organization: **Paradyne Corporation**

Main Contact: **Intellectual Property Director**

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Fax. No.: +1 813 532 5949

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.09.1997**

Remarks:

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**Recommendation Number: T.39**

Id Number: T039-02

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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80506 Munich

Germany

Tel. No.: +49 89 6368 2880

Fax. No.: +49 89 6368 1855

E-mail: dieter.reinhardt@mchm.siemens.de

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.02.1997**

Remarks:

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**Recommendation Number: T.44**

Id Number: T044-01

Organization: **Xerox Corporation**  
Main Contact: **Xerox Intellectual Property Operations (XIPO)**  
Address: 100 Willowbrook Office Park. Bldg. 832-01A  
Fairport, New York 14450  
USA  
Tel. No.: +1 716 264 6900  
Fax. No.: +1 716 264 2534  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Declaration refers to T.44 Annex B)

Patent Title: **Means for combining data of different frequencies for a raster output device**

Patent Number: **Re35 657**

Patent Country: **United States**

Date Patent Statement Received: **10.09.1999**

Remarks:  
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**Recommendation Number: T.44**

Id Number: T044-02

Organization: **Xerox Corporation**  
Main Contact: **Xerox Intellectual Property Operations (XIPO)**  
Address: 100 Willowbrook Office Park. Bldg. 832-01A  
Fairport, New York 14450  
USA  
Tel. No.: +1 716 264 6900  
Fax. No.: +1 716 264 2534  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. The declaration refers to T.44 Annex B.)

Patent Title: **Method and apparatus for compressing color or gray scale documents**

Patent Number: **5 778 092**

Patent Country: **United States**

Date Patent Statement Received: **10.09.1999**

Remarks:  
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**Recommendation Number: T.81**

Id Number: T081-01

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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USA

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Fax. No.: +1 914 765 4420

E-mail: holleman@us.ibm.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Symmetrical adaptive data compression/decompression system**

Patent Number: **4 633 490**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.81**

Id Number: T081-02

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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E-mail: holleman@us.ibm.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **A multiplication-free multi-alphabet arithmetic code**

Patent Number: **4 652 856**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:

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**Recommendation Number: T.81**

Id Number: T081-03

Organization: **International Business Machines Corporation**

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E-mail: holleman@us.ibm.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Grey scale image compression with code words a function of image history**

Patent Number: **4 369 463**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.81**

Id Number: T081-04

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Compression of multilevel signals**

Patent Number: **4 749 983**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
-----

**Recommendation Number: T.81**

Id Number: T081-05

Organization: **International Business Machines Corporation**

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E-mail: holleman@us.ibm.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Probability adaption for arithmetic coders**

Patent Number: **4 935 882**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.81**

Id Number: T081-06

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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Fax. No.: +1 914 765 4420

E-mail: holleman@us.ibm.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Arithmetic coding encoder and decoder system**

Patent Number: **4 905 297**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.81**

Id Number: T081-07

Organization: **Lucent Technologies Inc.**  
Main Contact: **Mr. Paul Fillinich, Intellectual Property Business**  
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Tel. No.: +1 732 949 8662  
Fax. No.: +1 732 949 4729  
E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Method and apparatus for carry-over control in arithmetic entropy coding**

Patent Number: **4 973 961**

Patent Country: **United States**

Date Patent Statement Received: **12.05.1992**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: T.81**

Id Number: T081-08

Organization: **Lucent Technologies Inc.**  
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Fax. No.: +1 732 949 4729  
E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Adaptive probability estimator for entropy encoding/decoding**

Patent Number: **5 025 258**

Patent Country: **United States**

Date Patent Statement Received: **12.05.1992**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: T.81**

Id Number: T081-09

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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E-mail: holleman@us.ibm.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Probability adaption for arithmetic coders**

Patent Number: **5 099 440**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
-----

**Recommendation Number: T.81**

Id Number: T081-10

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Tokyo 100-8310

Japan

Tel. No.: +81 3 3218 3465

Fax. No.: +81 3 3218 2474

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Coding system**

Patent Number: **2-46275 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **29.07.1992**

Remarks:

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**Recommendation Number: T.81**

Id Number: T081-11

Organization: **Electronic Imagery Inc.**

Main Contact: **Chief Executive Office**

Address: 1100 Park Central Boulevard South, Suite 3400

Pompano Beach, Florida 33064

Tel. No.: +1 305 968 7100

Fax. No.: +1 305 968 7319

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Narrow bandwidth signal transmission**

Patent Number: **4 665 436**

Patent Country: **United States**

Date Patent Statement Received: **06.07.1993**

Remarks:

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**Recommendation Number: T.82**

Id Number: T082-01

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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Armonk, NY 10504-1785  
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Fax. No.: +1 914 765 4420

E-mail: holleman@us.ibm.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; ; Patent statement addressed to ISO)

Patent Title: **A method and means for pipeline decoding of the high to low order pairwise combined digits of a decodable set of relatively shifted finite number of strings**

Patent Number: **4 295 125**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-02

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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Fax. No.: +1 914 765 4420

E-mail: holleman@us.ibm.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **A Method and means for carry-over control in a high order to low order combining of a decodable set of relatively shifted finite number strings**

Patent Number: **4 463 342**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-03

Organization: **International Business Machines Corporation**

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E-mail: holleman@us.ibm.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **High-speed arithmetic compression using concurrent value updating**

Patent Number: **4 467 317**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-04

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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Fax. No.: +1 914 765 4420

E-mail: holleman@us.ibm.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Method and means for arithmetic coding using a reduced number of operations**

Patent Number: **4 286 256**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-05

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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Tel. No.: +1 914 765 4375

Fax. No.: +1 914 765 4420

E-mail: holleman@us.ibm.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **A multiplication-free multi-alphabet arithmetic code**

Patent Number: **4 652 856**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-06

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Symmetrical adaptive data compression/decompression system**

Patent Number: **4 633 490**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:

-----

**Recommendation Number: T.82**

Id Number: T082-07

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Arithmetic coding data compression/decompression by selectiviely employed, diverse arithmetic encoders and decoders**

Patent Number: **4 891 643**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-08

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **System for compression bi-level data**

Patent Number: **4 901 363**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-09

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Arithmetic coding encoder and decoder systems**

Patent Number: **4 905 297**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-10

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Probability adaption for arithmetic coders**

Patent Number: **4 935 882**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-11

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Probability adaption for arithmetic coders**

Patent Number: **5 099 440**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
-----



**Recommendation Number: T.82**

Id Number: T082-12

Organization: **International Business Machines Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Method and apparatus for processing pel signals of an image**

Patent Number: **4 982 292**

Patent Country: **Unitted States**

Date Patent Statement Received: **02.08.1993**

Remarks:

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**Recommendation Number: T.82**

Id Number: T082-13

Organization: **International Business Machines Corporation**

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E-mail: holleman@us.ibm.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Progressive transmission of high resolution two-tone facsimile images**

Patent Number: **4 870 497**

Patent Country: **United States**

Date Patent Statement Received: **02.08.1993**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-14

Organization: **Lucent Technologies Inc.**  
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E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Edge decomposition for the transmission of high resolution facsimile images**

Patent Number: **4 873 577**

Patent Country: **United States**

Date Patent Statement Received: **12.05.1992**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

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**Recommendation Number: T.82**

Id Number: T082-15

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Adaptive probability estimator for entropy encoding/decoding**

Patent Number: **5 025 258**

Patent Country: **United States**

Date Patent Statement Received: **12.05.1992**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: T.82**

Id Number: T082-16

Organization: **Lucent Technologies Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Efficient encoding/decoding in the decomposition and recombination of a high resolution image utilizing its low resolution replica**

Patent Number: **4 979 049**

Patent Country: **United States**

Date Patent Statement Received: **12.05.1992**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

-----

**Recommendation Number: T.82**

Id Number: T082-17

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Efficient encoding/decoding in the decomposition and recombination of a high resolution image utilizing pixel clusters**

Patent Number: **5 031 053**

Patent Country: **United States**

Date Patent Statement Received: **12.05.1992**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

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**Recommendation Number: T.82**

Id Number: T082-18

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Entropy encoder/decoder including a context extractor**

Patent Number: **5 023 611**

Patent Country: **United States**

Date Patent Statement Received: **12.05.1992**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

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**Recommendation Number: T.82**

Id Number: T082-19

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E-mail: pfillinich@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Method and apparatus for carry-over control in arithmetic entropy coding**

Patent Number: **4 973 961**

Patent Country: **United States**

Date Patent Statement Received: **12.05.1992**

Remarks: Informed from AT&T on 11 July 2001 that AT&T is no longer the owner of the patent. Lucent informed on 9 April 2003 that Lucent has taken over this patent and will continue to offer the license on the same condition as the original declaration.

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**Recommendation Number: T.82**

Id Number: T082-20

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2 (Patent statement addressed to ISO)

Patent Title: **Methods for reduced-sized images**

Patent Number: **63-212 432 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **27.04.1992**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-21

Organization: **KDDI Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; joint with Canon; Patent statement addressed to ISO)

Patent Title: **Image reduction system**

Patent Number: **1-167 033 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **27.04.1992**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-22

Organization: **Canon Inc.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; joint with KDD; Patent statement addressed to ISO)

Patent Title: **Image reduction system**

Patent Number: **1-167 033 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **20.04.1992**

Remarks:  
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**Recommendation Number: T.82**

Id Number: T082-23

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; Patent statement addressed to ISO)

Patent Title: **Facsimile encoding communication system**

Patent Number: **1 251 403**

Patent Country: **Japan**

Date Patent Statement Received: **29.07.1992**

Remarks:

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**Recommendation Number: T.82**

Id Number: T082-24

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity; pat. pending, no number given; Patent statement addressed to ISO)

Patent Title: **Encoding method**

Patent Number:

Patent Country: **Japan**

Date Patent Statement Received: **29.07.1992**

Remarks:

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**Recommendation Number: T.87**

Id Number: T087-01

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **26.03.1999**

Remarks:  
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**Recommendation Number: T.87**

Id Number: T087-02

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Image encoder and decoder**

Patent Number: **1 251 403**

Patent Country: **Japan**

Date Patent Statement Received: **07.04.1999**

Remarks:

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**Recommendation Number: T.87**

Id Number: T087-03

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Image encoder and decoder**

Patent Number: **1 327 309**

Patent Country: **Japan**

Date Patent Statement Received: **07.04.1999**

Remarks:

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**Recommendation Number: T.87**

Id Number: T087-04

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Image encoding and decoding method**

Patent Number: **1 386 973**

Patent Country: **Japan**

Date Patent Statement Received: **07.04.1999**

Remarks:

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**Recommendation Number: T.87**

Id Number: T087-05

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Image encoding and decoding method**

Patent Number: **1 519 215**

Patent Country: **Japan**

Date Patent Statement Received: **07.04.1999**

Remarks:

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**Recommendation Number: T.87**

Id Number: T087-06

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Image encoding and decoding method**

Patent Number: **1 519 216**

Patent Country: **Japan**

Date Patent Statement Received: **07.04.1999**

Remarks:

-----

**Recommendation Number: T.87**

Id Number: T087-07

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Image encoder and decoder**

Patent Number: **1 696 527**

Patent Country: **Japan**

Date Patent Statement Received: **07.04.1999**

Remarks:

-----

**Recommendation Number: T.87**

Id Number: T087-08

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Image encoder and decoder**

Patent Number: **8-63117 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **07.04.1999**

Remarks:

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**Recommendation Number: T.88**

Id Number: T088-01

Organization: **Kwangwoon University**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Lossy/Lossless coding method for binary image by efficient utilization of pattern correlation**

Patent Number: **10-97-068093 (appl. no.)**

Patent Country: **Korea**

Date Patent Statement Received: **17.11.1999**

Remarks:

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**Recommendation Number: T.88**

Id Number: T088-02

Organization: **Xerox Corporation**  
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Tel. No.: +1 716 264 6900  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Fontless structured document image representations for efficient rendering**

Patent Number: **5 884 014**

Patent Country: **United States**

Date Patent Statement Received: **31.01.2000**

Remarks:  
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**Recommendation Number: T.88**

Id Number: T088-03

Organization: **KDDI Corporation**

Main Contact: **Mr. Tetsuya Kondoh, Intellectual Property Department, Legal & Intellectual Division**

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E-mail: ipr@kddi.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity. Counter part in Japan.)

Patent Title: **Facsimile Image Encording Method**

Patent Number: **4 922 545**

Patent Country: **United States**

Date Patent Statement Received: **21.02.2003**

Remarks: This statement replaces T088-03 (09/Feb/00, op.2.2)

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**Recommendation Number: T.88**

Id Number: T088-04

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Encoding Apparatus and Encoding Method**

Patent Number: **2 128 110**

Patent Country: **Japan**

Date Patent Statement Received: **09.02.2000**

Remarks:

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**Recommendation Number: T.88**

Id Number: T088-05

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Encoding Apparatus and Encoding Method**

Patent Number: **2 128 115**

Patent Country: **Japan**

Date Patent Statement Received: **09.02.2000**

Remarks:

-----

**Recommendation Number: T.88**

Id Number: T088-06

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Decoding Method**

Patent Number: **2 783 221**

Patent Country: **Japan**

Date Patent Statement Received: **09.02.2000**

Remarks:

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**Recommendation Number: T.88**

Id Number: T088-07

Organization: **National Institute of Advanced Industrial Science and Technology**  
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E-mail: h.sakanashi@aist.go.jp

Licensing declaration: Pat. pol. 2.1

Patent Title: **The method and apparatus for adaptive prediction coding/decoding, and the media containing the program of adaptive prediction coding/decoding**

Patent Number: **2000-402163 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **11.03.2003**

Remarks: patent application with ERI (see. T088-09)

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**Recommendation Number: T.88**

Id Number: T088-08

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E-mail: h.sakanashi@aist.go.jp

Licensing declaration: Pat. pol. 2.1

Patent Title: **The method and instrument for adaptive prediction codin/decoding, and the program of adaptive prediction coding/decoding**

Patent Number: **PCT/JP01/11461**

Patent Country: **Japan**

Date Patent Statement Received: **11.03.2003**

Remarks: patent application with ERI (see. T088-10)

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**Recommendation Number: T.88**

Id Number: T088-09

Organization: **Evolvable Systems Research Institute, Inc.**  
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Licensing declaration: Pat. pol. 2.1

Patent Title: **The method and apparatus for adaptive prediction coding/decoding, and the media containing the program of adaptive prediction coding/decoding**

Patent Number: **2000-402163 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **11.03.2003**

Remarks: patent application with AIST (see. T088-07)

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**Recommendation Number: T.88**

Id Number: T088-11

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method and means for carry-over control in the high order to low order pairwise combining of digits of a decodable set of relatively shifted finite number strings**

Patent Number: **44 63 342**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:  
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**Recommendation Number: T.88**

Id Number: T088-12

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Symmetrical optimized adaptive data compression/tranfer/decompression system**

Patent Number: **46 33 490**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:  
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**Recommendation Number: T.88**

Id Number: T088-13

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Arithmetic coding encorder and decoder system**

Patent Number: **49 05 297**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:  
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**Recommendation Number: T.88**

Id Number: T088-14

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Probablity adaptation for arithmetic coders**

Patent Number: **49 35 882**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:

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**Recommendation Number: T.88**

Id Number: T088-15

Organization: **IBM Corporation**  
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Fax. No.: +1 914 765 4420  
E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Probablity adaptation for arithmetic coders**

Patent Number: **50 99 440**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:  
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**Recommendation Number: T.88**

Id Number: T088-16

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **High-speed arithmetic compression coding using concurrent value updating**

Patent Number: **44 67 317**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:  
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**Recommendation Number: T.88**

Id Number: T088-17

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Multiplication-free multi-alphabet code**

Patent Number: **46 52 856**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:  
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**Recommendation Number: T.88**

Id Number: T088-18

Organization: **IBM Corporation**  
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Fax. No.: +1 914 765 4420  
E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Arithmetic coding data compression/de-compression by selectively employed, diverse arithmetic coding encoders and decoders**

Patent Number: **48 91 643**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:  
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**Recommendation Number: T.88**

Id Number: T088-19

Organization: **IBM Corporation**  
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Fax. No.: +1 914 765 4420  
E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method and means for arithmetic coding utilizing a reduced number of operations**

Patent Number: **42 86 256**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:  
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**Recommendation Number: T.88**

Id Number: T088-20

Organization: **IBM Corporation**  
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Fax. No.: +1 914 765 4420  
E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method and means for pipeline decoding of the high to low order pairwise combined digits of a decodable set of relatively shifted finite number of strings**

Patent Number: **42 95 125**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:  
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**Recommendation Number: T.88**

Id Number: T088-21

Organization: **IBM Corporation**  
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Fax. No.: +1 914 765 4420  
E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Facsimile data reduction**

Patent Number: **44 63 386**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:  
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**Recommendation Number: T.88**

Id Number: T088-22

Organization: **IBM Corporation**  
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Fax. No.: +1 914 765 4420  
E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Compression of multilevel signals**

Patent Number: **47 49 983**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:  
-----

**Recommendation Number: T.88**

Id Number: T088-23

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **System for compressing bi-level data**

Patent Number: **49 01 363**

Patent Country: **United States**

Date Patent Statement Received: **17.06.2003**

Remarks:  
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**Recommendation Number: T.128**

Id Number: T128-01

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **13.03.1997**

Remarks:

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**Recommendation Number: T.136**

Id Number: T136-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.05.1999**

Remarks:

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**Recommendation Number: T.800**

Id Number: T800-01

Organization: **TeraLogic Inc.**  
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Licensing declaration: Pat. pol. 2.3

Patent Title:

Patent Number: **5 748 116**

Patent Country: **United States**

Date Patent Statement Received: **02.11.2000**

Remarks:

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**Recommendation Number: T.800**

Id Number: T800-02

Organization: **Algo Vision plc**  
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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **27.11.2000**

Remarks:

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**Recommendation Number: T.800**

Id Number: T800-03

Organization: **Ricoh Company Ltd**  
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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.02.2001**

Remarks:  
-----



**Recommendation Number: T.800**

Id Number: T800-04

Organization: **Ericsson, Telefonaktiebolaget LM**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.04.2001**

Remarks:

-----

**Recommendation Number: T.800**

Id Number: T800-05

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Data Compression via Alphabet Partitioning and Group Partitioning**

Patent Number: **5 959 560**

Patent Country: **United States**

Date Patent Statement Received: **01.03.2001**

Remarks:  
-----

**Recommendation Number: T.800**

Id Number: T800-06

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E-mail: pearlw@rpi.edu

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **An Embedded and Efficient Low Complexity Hierarchical Image Coder and Corresponding Methods**

Patent Number: **09 489 922 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **01.03.2001**

Remarks:  
-----

**Recommendation Number: T.800**

Id Number: T800-07

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Encoder and Encoding Method**

Patent Number: **21 28 110**

Patent Country: **Japan**

Date Patent Statement Received: **05.03.2001**

Remarks:

-----

**Recommendation Number: T.800**

Id Number: T800-08

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Decoding Method**

Patent Number: **27 83 221**

Patent Country: **Japan**

Date Patent Statement Received: **05.03.2001**

Remarks:

-----

**Recommendation Number: T.800**

Id Number: T800-09

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Encoder and Decoder**

Patent Number: **21 28 115**

Patent Country: **Japan**

Date Patent Statement Received: **05.03.2001**

Remarks:

-----

**Recommendation Number: T.800**

Id Number: T800-10

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Lossy/ Lossless Region-of-Interest Image Coding**

Patent Number: **WO/99/46413 (appl. no.)**

Patent Country: **WO**

Date Patent Statement Received: **05.03.2001**

Remarks:

-----

**Recommendation Number: T.800**

Id Number: T800-11

Organization: **Mitsubishi Electric Corp.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method and Apparatus for Compressing and Decompressing Images**

Patent Number: **WO/99/46412 (appl. no.)**

Patent Country: **WO**

Date Patent Statement Received: **05.03.2001**

Remarks:

-----



**Recommendation Number: T.800**

Id Number: T800-12

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Verfahren zur mehrdimensionalen, diskreten Wavelet Transformation und Transformationseinheit zur Durchführung des Verfahren**

Patent Number: **197 44 407**

Patent Country: **Germany**

Date Patent Statement Received: **21.09.2001**

Remarks:

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**Recommendation Number: T.800**

Id Number: T800-13

Organization: **Image Power, Inc.**

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity. JasPer software)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **25.09.2001**

Remarks:

-----

**Recommendation Number: T.800**

Id Number: T800-14

Organization: **Canon Inc.**

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Licensing declaration: Pat. pol. 2.1(Under condition of reciprocity. Counterpart in Australia.)

Patent Title: **A method for digital image compression**

Patent Number: **6163626**

Patent Country: **United States**

Date Patent Statement Received: **25.09.2001**

Remarks:  
-----

**Recommendation Number: T.800**

Id Number: T800-15

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Licensing declaration: Pat. pol. 2.1(Under condition of reciprocity)

Patent Title: **An image coding method and apparatus for localized decoding at multiple resolutions**

Patent Number: **3689499 (appl. no.)**

Patent Country: **Australia**

Date Patent Statement Received: **25.09.2001**

Remarks:

-----

**Recommendation Number: T.800**

Id Number: T800-16

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.10.2001**

Remarks:

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**Recommendation Number: T.800**

Id Number: T800-17

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **17.07.2002**

Remarks:

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**Recommendation Number: T.800**

Id Number: T800-18

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method and means for carry-over control in the high order to low order pairwise combining of digits of a decodable set of relatively shifted finite number strings**

Patent Number: **44 63 342**

Patent Country: **United States**

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

-----

**Recommendation Number: T.800**

Id Number: T800-19

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Symmetrical optimized adaptive data compression/transfer/decompression system**

Patent Number: **46 33 490**

Patent Country: **United States**

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

-----



**Recommendation Number: T.800**

Id Number: T800-20

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Arithmetic coding encoder and decoder system**

Patent Number: **49 05 297**

Patent Country: **United States**

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

-----

**Recommendation Number: T.800**

Id Number: T800-21

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Probability adaptation for arithmetic coders**

Patent Number: **49 35 882**

Patent Country: **United States**

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

-----

**Recommendation Number: T.800**

Id Number: T800-22

Organization: **IBM Corporation**  
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Fax. No.: +1 914 765 4420  
E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Probability adaptation for arithmetic coders**

Patent Number: **50 99 440**

Patent Country: **United States**

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

-----

**Recommendation Number: T.800**

Id Number: T800-23

Organization: **IBM Corporation**  
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Fax. No.: +1 914 765 4420  
E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **High-speed arithmetic compression coding using concurrent value updating**

Patent Number: **44 67 317**

Patent Country: **United States**

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

-----

**Recommendation Number: T.800**

Id Number: T800-24

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Multiplication-free multi-alphabet arithmetic code**

Patent Number: **46 52 856**

Patent Country: **United States**

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

-----

**Recommendation Number: T.800**

Id Number: T800-25

Organization: **IBM Corporation**  
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Fax. No.: +1 914 765 4420  
E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Arithmetic coding data compression/decompression by selectively employed, diverse arithmetic coding encoders and decoders**

Patent Number: **48 91 643**

Patent Country: **United States**

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

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**Recommendation Number: T.800**

Id Number: T800-26

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method and means for arithmetic coding utilizing a reduced number of operations**

Patent Number: **42 86 256**

Patent Country: **United States**

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

-----

**Recommendation Number: T.800**

Id Number: T800-27

Organization: **IBM Corporation**  
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E-mail: wcadams@us.ibm.com

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title: **Method and means for pipeline decoding of the high to low order pairwise combined digits of a decodable set of relatively shifted finite number of strings**

Patent Number: **42 95 125**

Patent Country: **United States**

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

-----



**Recommendation Number: T.800**

Id Number: T800-28

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Sub/band coding of images with low computational complexity**

Patent Number: **4 829 378**

Patent Country: **United States**

Date Patent Statement Received: **17.05.2004**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

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**Recommendation Number: T.801**

Id Number: T801-01

Organization: **Ricoh Company Ltd**  
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Fax. No.: +81 3 5742 5429  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.02.2001**

Remarks:  
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**Recommendation Number: T.801**

Id Number: T801-02

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Tokyo 100-8310

Japan

Tel. No.: +81 3 3218 3465

Fax. No.: +81 3 3218 2474

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.03.2004**

Remarks:

**Received after the approval of the Recommendation in August 2002.**

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**Recommendation Number: T.804**

Id Number: T804-01

Organization: **University of British Columbia**  
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Canada  
Tel. No.: +1 604 822 8580  
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E-mail:

Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.07.2001**

Remarks:

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**Recommendation Number: T.870**

Id Number: T870-01

Organization: **The Chinese University of Hong Kong**

Main Contact: **Mrs. Alice N Yip, Director, Research and Technology Administration Office**

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Fax. No.: +852 2603 5451

E-mail: [aliceyip@cuhk.edu.hk](mailto:aliceyip@cuhk.edu.hk)

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **20.12.2001**

Remarks:

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**Recommendation Number: T.870**

Id Number: T870-02

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Tel. No.: +81 3 3218 3465

Fax. No.: +81 3 3218 2474

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Image Encoding Method**

Patent Number: **15 19 215**

Patent Country: **Japan**

Date Patent Statement Received: **05.03.2001**

Remarks:

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**Recommendation Number: T.870**

Id Number: T870-03

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Tel. No.: +81 3 3218 3465

Fax. No.: +81 3 3218 2474

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Image Encoding Method**

Patent Number: **15 19 216**

Patent Country: **Japan**

Date Patent Statement Received: **05.03.2001**

Remarks:

-----

**Recommendation Number: T.870**

Id Number: T870-04

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Fax. No.: +81 3 3218 2474

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Image Encoder and Decoder Method**

Patent Number: **16 96 527**

Patent Country: **Japan**

Date Patent Statement Received: **05.03.2001**

Remarks:

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**Recommendation Number: T.870**

Id Number: T870-05

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Fax. No.: +81 3 3218 2474

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Encoder and Encoding Method**

Patent Number: **21 28 110**

Patent Country: **Japan**

Date Patent Statement Received: **05.03.2001**

Remarks:

-----

**Recommendation Number: T.870**

Id Number: T870-06

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Fax. No.: +81 3 3218 2474

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Decoding Method**

Patent Number: **27 83 221**

Patent Country: **Japan**

Date Patent Statement Received: **05.03.2001**

Remarks:

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**Recommendation Number: T.870**

Id Number: T870-07

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Japan

Tel. No.: +81 3 3218 3465

Fax. No.: +81 3 3218 2474

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Encoder, Decoder, their Methods and Image Processor**

Patent Number: **WO97/35434 (appl. no.)**

Patent Country: **WO**

Date Patent Statement Received: **05.03.2001**

Remarks:

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**Recommendation Number: T.870**

Id Number: T870-08

Organization: **Mitsubishi Electric Corp.**

Main Contact: **Corporate Licensing Department/ Attn. Mr. Ryo Tokunaga**

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Tokyo 100-8310

Japan

Tel. No.: +81 3 3218 3465

Fax. No.: +81 3 3218 2474

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Adaptive Encoding Method**

Patent Number: **H10-256917 (appl. no.)**

Patent Country: **Japan**

Date Patent Statement Received: **05.03.2001**

Remarks:

-----

**Recommendation Number: T.870**

Id Number: T870-09

Organization: **Canon Inc.**

Main Contact: **Mr. Kazuo Tanami, Contract & Licensing Center**

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Japan

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Fax. No.: +81 3 5482 7387

E-mail: tanami.kazuo@canon.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **25.09.2001**

Remarks:  
-----

**Recommendation Number: V.8**

Id Number: V008-01

Organization: **Microcom Systems Inc.**

Main Contact:

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Granada Hills, California 91344  
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Tel. No.: +1 818 366 1052

Fax. No.: +1 818 831 6760

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.09.1993**

Remarks:

-----

**Recommendation Number: V.8**

Id Number: V008-02

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Hillsboro, Oregon 97124  
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Tel. No.: +1 408 765 1125

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E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.11.2000**

Remarks:

-----

**Recommendation Number: V.8bis**

Id Number: V008bis-01

Organization: **Microcom Systems Inc.**

Main Contact:

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Granada Hills, California 91344  
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Tel. No.: +1 818 366 1052

Fax. No.: +1 818 831 6760

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **24.04.1995**

Remarks:

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**Recommendation Number: V.8bis**

Id Number: V008bis-02

Organization: **Radish Communications Systems Inc.**

Main Contact:

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Tel. No.: +1 303 443 2237

Fax. No.: +1 303 443 1659

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.04.1996**

Remarks:

-----

**Recommendation Number: V.8bis**

Id Number: V008bis-03

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.11.2000**

Remarks:

-----

**Recommendation Number: V.8ia**

Id Number: V008ia-01

Organization: **VocalTec Ltd.**

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Hertzliya 46733  
Israel

Tel. No.: +972 9 562121

Fax. No.: +972 9 561867

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.08.1997**

Remarks:

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**Recommendation Number: V.140**

Id Number: V0140-01

Organization: **Paradyne Corporation**

Main Contact: **Intellectual Property Director**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **19.08.1997**

Remarks:

-----

**Recommendation Number: V.17**

Id Number: V017-01

Organization: **International Business Machines Europe**

Main Contact: **Compagnie IBM France, Department 940**

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Fax. No.: +33 93 584 884

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.10.1990**

Remarks:

-----

**Recommendation Number: V.17**

Id Number: V017-02

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

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USA

Tel. No.: +1 973 236 6760

Fax. No.: +1 973 236 6452

E-mail: tfrost@att.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.10.1990**

Remarks: Informed from AT&T on 11 July 2001 that AT&T no longer owns essential IPR for this Recommendation.

-----

**Recommendation Number: V.18**

Id Number: V018-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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UUSA

Tel. No.: +1 408 765 1125

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E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.11.2000**

Remarks:

-----

**Recommendation Number: V.25ter**

Id Number: V025ter-01

Organization: **General DataComm, Inc.**  
Main Contact: **Director, Corporate Technology**  
Address: P.O. Box 1299  
Middlebury, Conn. 06762-1299  
USA  
Tel. No.: +1 203 574 1118  
Fax. No.: +1 203 573 0069  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **19.04.1995**

Remarks:  
-----



**Recommendation Number: V.25ter**

Id Number: V025ter-02

Organization: **Radish Communications Systems Inc.**

Main Contact:

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Boulder, Colorado 80301-2849  
UUSA

Tel. No.: +1 303 443 2237

Fax. No.: +1 303 443 1659

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.04.1996**

Remarks:

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**Recommendation Number: V.26ter**

Id Number: V026ter-01

Organization: **Société Télécommunications Radioélectriques et Téléphoniques**

Main Contact:

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75013 Paris  
France

Tel. No.: +33 1 4581 1112

Fax. No.:

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Licensing declaration: Foreign counterparts

Patent Title: **Annuleur d'echo numérique pour modem de transmission de données par modulation d'une porteuse**

Patent Number: **F 77 01 197**

Patent Country: **France**

Date Patent Statement Received:

Remarks:  
-----

**Recommendation Number: V.26ter**

Id Number: V026ter-02

Organization: **Société Télécommunications Radioélectriques et Téléphoniques**

Main Contact:

Address: 88 rue Brillat-Savarin  
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France

Tel. No.: +33 1 4581 1112

Fax. No.:

E-mail:

Licensing declaration: Foreign counterparts

Patent Title: **Annuleur d'echo numérique pour modem de transmission de données par modulation d'une porteuse**

Patent Number: **F 77 18 342**

Patent Country: **France**

Date Patent Statement Received:

Remarks:  
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**Recommendation Number: V.29**

Id Number: V029-01

Organization: **CODEX Corp.**

Main Contact: **James W. Storey**

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Newton, Mass 02195  
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Fax. No.:

E-mail:

Licensing declaration: (Counterparts in United Kingdom, Germany, Australia, Canada, Japan, Netherlands)

Patent Title: **Signal structure for double side band - quadrature carrier modulation**

Patent Number: **3 887 768**

Patent Country: **United States**

Date Patent Statement Received:

Remarks:  
-----

**Recommendation Number: V.32**

Id Number: V032-01

Organization: **Société Télécommunications Radioélectriques et Téléphoniques**

Main Contact:

Address: 88 rue Brillat-Savarin  
75013 Paris  
France

Tel. No.: +33 1 4581 1112

Fax. No.:

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Licensing declaration: Foreign counterparts

Patent Title: **Annuleur d'echo numérique pour modem de transmission de données par modulation d'une porteuse**

Patent Number: **F 77 01 197**

Patent Country: **France**

Date Patent Statement Received:

Remarks:  
-----

**Recommendation Number: V.32**

Id Number: V032-02

Organization: **Société Télécommunications Radioélectriques et Téléphoniques**

Main Contact:

Address: 88 rue Brillat-Savarin  
75013 Paris  
France

Tel. No.: +33 1 4581 1112

Fax. No.:

E-mail:

Licensing declaration: Foreign counterparts

Patent Title: **Annuleur d'echo numérique pour modem de transmission de données par modulation d'une porteuse**

Patent Number: **F 77 18 342**

Patent Country: **France**

Date Patent Statement Received:

Remarks:  
-----

**Recommendation Number: V.32**

Id Number: V032-03

Organization: **AT&T Corp.**  
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180 Park Ave, Florham Park, New Jersey 07932  
USA  
Tel. No.: +1 973 236 6760  
Fax. No.: +1 973 236 6452  
E-mail: tfrost@att.com

Licensing declaration: Pat. pol. 2.2; List of 144 possible patents through computer search of company database. Other patents mentioned in Statement.

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received:

Remarks: Informed from AT&T on 11 July 2001 that AT&T no longer owns essential IPR for this Recommendation.

-----

**Recommendation Number: V.32**

Id Number: V032-04

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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Armonk, NY 10504-1785  
USA

Tel. No.: +1 914 765 4375

Fax. No.: +1 914 765 4420

E-mail: holleman@us.ibm.com

Licensing declaration: (Counterparts in France, Switzerland, United Kingdom, Germany, Japan)

Patent Title: **Method and arrangement for coding binary signals and modulating a carrier signal**

Patent Number: **4 077 021**

Patent Country: **United States**

Date Patent Statement Received:

Remarks:  
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**Recommendation Number: V.32bis**

Id Number: V032bis-01

Organization: **International Business Machines Europe**

Main Contact: **Compagnie IBM France, Department 940**

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Fax. No.: +33 93 584 884

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.10.1990**

Remarks:

-----

**Recommendation Number: V.32bis**

Id Number: V032bis-02

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

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E-mail: tfrost@att.com

Licensing declaration: Pat. pol.2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.10.1990**

Remarks: Informed from AT&T on 11 July 2001 that AT&T no longer owns essential IPR for this Recommendation.

-----

**Recommendation Number: V.32bis**

Id Number: V032bis-03

Organization: **Motorola Information Systems Group**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.10.1990**

Remarks:

-----

**Recommendation Number: V.34**

Id Number: V034-01

Organization: **Microcom Systems Inc.**

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Fax. No.: +1 818 831 6760

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.09.1993**

Remarks:

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**Recommendation Number: V.34**

Id Number: V034-02

Organization: **Racal Corporation**  
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Fax. No.: +1 954 846 5026  
E-mail:

Licensing declaration: Pat. pol. 2.2; addtl. patents to the one with pat. no., also foreign patent counterparts included

Patent Title:

Patent Number: **4 891 806**

Patent Country: **United States**

Date Patent Statement Received: **23.04.1991**

Remarks:

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**Recommendation Number: V.34**

Id Number: V034-03

Organization: **U.S. Robotics**

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **12.01.1993**

Remarks:

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**Recommendation Number: V.34**

Id Number: V034-04

Organization: **General DataComm, Inc.**  
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Middlebury, Conn. 06762-1299  
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Fax. No.: +1 203 573 0069  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.10.1991**

Remarks:  
-----

**Recommendation Number: V.34**

Id Number: V034-05

Organization: **AT&T Corp.**

Main Contact: **Mr. Thomas Frost, AT&T Intellectual Property Management**

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Tel. No.: +1 973 236 6760

Fax. No.: +1 973 236 6452

E-mail: tfrost@att.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.10.1991**

Remarks: Informed from AT&T on 11 July 2001 that AT&T no longer owns essential IPR for this Recommendation.

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**Recommendation Number: V.34**

Id Number: V034-06

Organization: **Penril DataCom Networks**

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Fax. No.: +1 301 921 8376

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.10.1991**

Remarks:

-----

**Recommendation Number: V.34**

Id Number: V034-07

Organization: **Motorola Information Systems Group**

Main Contact: **Kirk Dailey, Legal Department**

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USA

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.10.1991**

Remarks:  
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**Recommendation Number: V.34**

Id Number: V034-08

Organization: **British Telecommunications, plc**  
Main Contact: **BT Group Legal Services, Intellectual Property Dept.**  
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London WC1E 6BA  
United Kingdom  
Tel. No.: +44 71 728 7230  
Fax. No.: +44 71 728 7849  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **12.06.1992**

Remarks:

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**Recommendation Number: V.34**

Id Number: V034-09

Organization: **International Business Machines Europe**

Main Contact: **Compagnie IBM France, Department 940**

Address: Centre d'Etudes et Recherche, BP 01

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Fax. No.: +33 93 584 884

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **12.06.1992**

Remarks:

-----

**Recommendation Number: V.34**

Id Number: V034-10

Organization: **Racal Corporation**  
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Sunrise, Florida 33323-2899  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.05.1994**

Remarks:  
-----

**Recommendation Number: V.34**

Id Number: V034-11

Organization: **University of Maryland at College Park**

Main Contact: **Office of Technology Liaison**

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Fax. No.: +1 301 314 9871

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **24.12.1993**

Remarks:

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**Recommendation Number: V.34**

Id Number: V034-12

Organization: **Conexant Systems, Inc**  
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Newport Beach, CA 92660-3095  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **28.10.1994**

Remarks: Informed from Conexant on 14 April 2003 that due to changes in corporate ownership, the patent statement previously made under the name of the Rockwell Corporation is changed to Conexant.

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**Recommendation Number: V.34**

Id Number: V034-13

Organization: **Paradyne Corporation**

Main Contact: **Intellectual Property Director**

Address: 8545 126th Ave., P.O. Box 2826  
Largo, Florida 33773  
USA

Tel. No.: +1 813 530 8444

Fax. No.: +1 813 532 5949

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.08.1997**

Remarks:

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**Recommendation Number: V.34**

Id Number: V034-14

Organization: **Agere Systemes Inc.**  
Main Contact: **Mr. Viren Pathare, Licensing Manager, Intellectual Property**  
Address: 1110 American Parkway NE, Room 12C-347  
Allentown, PA 18109-9138  
USA  
Tel. No.: +1 610 712 6906  
Fax. No.: +1 610 712 3467  
E-mail: pathare@agere.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Trellis -coding method and arrangement for fractional bit rates**

Patent Number: **4 941 154**

Patent Country: **United States**

Date Patent Statement Received: **12.05.2003**

Remarks:

**Received after the approval of the Recommendation in February 1998.**

-----

**Recommendation Number: V.34**

Id Number: V034-15

Organization: **Agere Systemes Inc.**  
Main Contact: **Mr. Viren Pathare, Licensing Manager, Intellectual Property**  
Address: 1110 American Parkway NE, Room 12C-347  
Allentown, PA 18109-9138  
USA  
Tel. No.: +1 610 712 6906  
Fax. No.: +1 610 712 3467  
E-mail: pathare@agere.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Structured quantizer for sources with memory**

Patent Number: **5 418 531**

Patent Country: **United States**

Date Patent Statement Received: **12.05.2003**

Remarks:

**Received after the approval of the Recommendation in February 1998.**

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**Recommendation Number: V.34Q**

Id Number: V034Q-01

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
Legal and Industry Relations Grp.**

Address: 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi  
Kanagawa-ken 211-8588  
Japan

Tel. No.: +81 44 754 8641

Fax. No.: +81 44 754 8503

E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.03.1996**

Remarks:

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**Recommendation Number: V.34Q**

Id Number: V034Q-02

Organization: **Paradyne Corporation**

Main Contact: **Intellectual Property Director**

Address: 8545 126th Ave., P.O. Box 2826  
Largo, Florida 33773  
USA

Tel. No.: +1 813 530 8444

Fax. No.: +1 813 532 5949

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **14.03.1997**

Remarks:  
-----

**Recommendation Number: V.38**

Id Number: V038-01

Organization: **International Business Machines Europe**

Main Contact: **Compagnie IBM France, Department 940**

Address: Centre d'Etudes et Recherche, BP 01

06610 La Gaude

France

Tel. No.: +33 93 584 521

Fax. No.: +33 93 584 884

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.06.1992**

Remarks:

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**Recommendation Number: V.42bis**

Id Number: V042bis-01

Organization: **UNISYS Ltd.**

Main Contact:

Address: Stonebridge Park  
London NW10 8LS  
United Kingdom

Tel. No.: +44 71 453 5247

Fax. No.: +44 71 961 2252

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **26.09.1989**

Remarks:

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**Recommendation Number: V.42bis**

Id Number: V042bis-02

Organization: **British Telecommunications, plc**  
Main Contact: **BT Group Legal Services, Intellectual Property Dept.**  
Address: 151 Gower St.  
London WC1E 6BA  
United Kingdom  
Tel. No.: +44 71 728 7230  
Fax. No.: +44 71 728 7849  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **26.09.1989**

Remarks:

-----

**Recommendation Number: V.42bis**

Id Number: V042bis-03

Organization: **International Business Machines Europe**  
Main Contact: **Compagnie IBM France, Department 940**  
Address: Centre d'Etudes et Recherche, BP 01  
06610 La Gaude  
France  
Tel. No.: +33 93 584 521  
Fax. No.: +33 93 584 884  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **26.09.1989**

Remarks:  
-----



**Recommendation Number: V.42bis**

Id Number: V042bis-04

Organization: **Omni-Dimensional-Networks**  
Main Contact: **Mr. Klaus Holtz, President**  
Address: 631 O'Farrell, suite 1208  
San Francisco, California 94109-7429  
USA  
Tel. No.: +1 415 474 4860  
Fax. No.: +1 415 474 4860  
E-mail: holtzk@autosophy.com

Licensing declaration: Pat. pol. 2.2

Patent Title: **Associative memory search system**

Patent Number: **4 366 551**

Patent Country: **United States**

Date Patent Statement Received: **17.01.1995**

Remarks:  
-----

**Recommendation Number: V.42bis**

Id Number: V042bis-05

Organization: **Refac International, Ltd.**  
Main Contact: **Mr. Robert L. Tuchman**  
Address: 115 River Road  
Edgewater, NJ 07020-1099  
USA  
Tel. No.: +1 201 943 4400  
Fax. No.: +1 201 943 7400  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System for dynamically compressing and decompressing electronic data**

Patent Number: **4 876 541**

Patent Country: **United States**

Date Patent Statement Received: **21.08.2000**

Remarks:  
-----

**Recommendation Number: V.43**

Id Number: V043-01

Organization: **Société Anonyme de Télécommunications**

Main Contact:

Address: 41, rue Cantagrel  
75631 Paris Cedex 13  
France

Tel. No.: +33 1 4582 3111

Fax. No.: +33 1 4582 3113

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.05.1995**

Remarks:

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**Recommendation Number: V.44**

Id Number: V044-01

Organization: **Hughes Electronicis Corporation**

Main Contact: **Mr. John T. Whelan, Legal**

Address: 11717 Exploration Lane  
Germantown, MD 20876  
USA

Tel. No.: +1 301 428 7172

Fax. No.: +1 301 428 2802

E-mail: jwhelan@hns.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **21.06.2000**

Remarks:  
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**Recommendation Number: V.44**

Id Number: V044-02

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Hillsboro, Oregon 97124  
UUSA

Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.11.2000**

Remarks:  
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**Recommendation Number: V.58**

Id Number: V058-01

Organization: **General DataComm, Inc.**  
Main Contact: **Director, Corporate Technology**  
Address: P.O. Box 1299  
Middlebury, Conn. 06762-1299  
USA  
Tel. No.: +1 203 574 1118  
Fax. No.: +1 203 573 0069  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **01.06.1994**

Remarks:  
-----

**Recommendation Number: V.59**

Id Number: V059-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

Address: 2111 North East 25th Avenue, JF3-147  
Hillsboro, Oregon 97124  
UUSA

Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.11.2000**

Remarks:  
-----

**Recommendation Number: V.60 series**

Id Number: V060series-01

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

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80506 Munich

Germany

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Fax. No.: +49 89 6368 1855

E-mail: dieter.reinhardt@mchm.siemens.de

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.03.1996**

Remarks:

-----



**Recommendation Number: V.61**

Id Number: V061-01

Organization: **Fujitsu Ltd.**

Main Contact: **Mr. Kyoichi Hosoya, Business Administration Department, Legal Division,  
Legal and Industry Relations Grp.**

Address: 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi  
Kanagawa-ken 211-8588  
Japan

Tel. No.: +81 44 754 8641

Fax. No.: +81 44 754 8503

E-mail: khosoya@lip.fujitsu.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.03.1996**

Remarks:

-----

**Recommendation Number: V.61**

Id Number: V061-02

Organization: **Paradyne Corporation**

Main Contact: **Intellectual Property Director**

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Largo, Florida 33773  
USA

Tel. No.: +1 813 530 8444

Fax. No.: +1 813 532 5949

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **22.11.1994**

Remarks:

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**Recommendation Number: V.70**

Id Number: V070-01

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

Address: 2111 North East 25th Avenue, JF3-147

Hillsboro, Oregon 97124

UUSA

Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for automatically converting from an analog voice mode to a simultaneous voice and data mode for a multimodal call over a telephone line**

Patent Number: **5 606 599**

Patent Country: **United States**

Date Patent Statement Received: **26.03.1998**

Remarks:

-----

**Recommendation Number: V.70**

Id Number: V070-02

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

Address: 2111 North East 25th Avenue, JF3-147  
Hillsboro, Oregon 97124  
UUSA

Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System for identifying new client and allocating bandwidth thereto by monitoring transmission of message received periodically from client computers informing of their current status**

Patent Number: **5 600 797**

Patent Country: **United States**

Date Patent Statement Received: **26.03.1998**

Remarks:

-----

**Recommendation Number: V.70**

Id Number: V070-03

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

Address: 2111 North East 25th Avenue, JF3-147  
Hillsboro, Oregon 97124  
UUSA

Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for multiplexing voice and data on a single analog-loop telephone line**

Patent Number: **5 692 035**

Patent Country: **United States**

Date Patent Statement Received: **26.03.1998**

Remarks:  
-----

**Recommendation Number: V.70 series**

Id Number: V070series-01

Organization: **Siemens**

Main Contact: **Mr. Dieter F. Reinhardt, Managing Licensing Counsel**

Address: P.O. Box 22 16 34

80506 Munich

Germany

Tel. No.: +49 89 6368 2880

Fax. No.: +49 89 6368 1855

E-mail: dieter.reinhardt@mchm.siemens.de

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.03.1996**

Remarks:

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**Recommendation Number: V.76**

Id Number: V076-01

Organization: **Lucent Technologies**  
Main Contact: **Intellectual Property Department**  
Address: 150 Allen Road  
Liberty Corner, New Jersey 07938  
USA  
Tel. No.: +1 908 903 8037  
Fax. No.: +1 908 903 6329  
E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2 (Counterparts in Canada, France, Germany, United Kingdom, Netherlands)

Patent Title: **Method and apparatus for graceful preemption on a digital communications link**

Patent Number: **4 542 380**

Patent Country: **United States**

Date Patent Statement Received: **06.03.1996**

Remarks:  
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**Recommendation Number: V.76**

Id Number: V076-02

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

Address: 2111 North East 25th Avenue, JF3-147

Hillsboro, Oregon 97124

UUSA

Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for automatically converting from an analog voice mode to a simultaneous voice and data mode for a multimodal call over a telephone line**

Patent Number: **5 606 599**

Patent Country: **United States**

Date Patent Statement Received: **26.03.1998**

Remarks:

-----



**Recommendation Number: V.76**

Id Number: V076-03

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

Address: 2111 North East 25th Avenue, JF3-147

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UUSA

Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System for identifying new client and allocating bandwidth thereto by monitoring transmission of message received periodically from client computers informing of their current status**

Patent Number: **5 600 797**

Patent Country: **United States**

Date Patent Statement Received: **26.03.1998**

Remarks:

-----

**Recommendation Number: V.76**

Id Number: V076-04

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

Address: 2111 North East 25th Avenue, JF3-147  
Hillsboro, Oregon 97124  
UUSA

Tel. No.: +1 408 765 1125

Fax. No.:

E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for multiplexing voice and data on a single analog-loop telephone line**

Patent Number: **5 692 035**

Patent Country: **United States**

Date Patent Statement Received: **26.03.1998**

Remarks:  
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**Recommendation Number: V.80**

Id Number: V080-01

Organization: **Hayes Microcomputer Products Inc.**

Main Contact: **Chief Executive Officer**

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Atlanta, GA 30348-5203  
USA

Tel. No.: +1 404 840 9200

Fax. No.: +1 404 447 0178

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **26.03.1996**

Remarks:

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**Recommendation Number: V.90**

Id Number: V090-01

Organization: **General DataComm, Inc.**  
Main Contact: **Director, Corporate Technology**  
Address: P.O. Box 1299  
Middlebury, Conn. 06762-1299  
USA  
Tel. No.: +1 203 574 1118  
Fax. No.: +1 203 573 0069  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.07.1997**

Remarks:  
-----

**Recommendation Number: V.90**

Id Number: V090-02

Organization: **LAKE Datacomms Ltd**

Main Contact: **Mr. Brian O'Sullivan**

Address: Broomhill Drive

Dublin 24

Ireland

Tel. No.: +353 1 452 3433

Fax. No.: +353 1 451 5740

E-mail: brianos@lake.ie

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.07.1997**

Remarks:

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**Recommendation Number: V.90**

Id Number: V090-04

Organization: **Motorola Information Systems Group**

Main Contact: **Kirk Dailey, Legal Department**

Address: 20 Cabot Boulevard  
Mansfield, MA 02048  
USA

Tel. No.: +1 508 261 5385

Fax. No.: +1 508 339 7086

E-mail: Kirk.dailey@motorola.com

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.09.1997**

Remarks:  
-----

**Recommendation Number: V.90**

Id Number: V090-05

Organization: **Lucent Technologies**  
Main Contact: **Intellectual Property Department**  
Address: 150 Allen Road  
Liberty Corner, New Jersey 07938  
USA  
Tel. No.: +1 908 903 8037  
Fax. No.: +1 908 903 6329  
E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **High-speed modem synchronized to a remote codec**

Patent Number: **5 394 437**

Patent Country: **United States**

Date Patent Statement Received: **18.09.1997**

Remarks:  
-----

**Recommendation Number: V.90**

Id Number: V090-06

Organization: **Lucent Technologies**  
Main Contact: **Intellectual Property Department**  
Address: 150 Allen Road  
Liberty Corner, New Jersey 07938  
USA  
Tel. No.: +1 908 903 8037  
Fax. No.: +1 908 903 6329  
E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **High-speed quantization-sampling modem with equalization arrangement**

Patent Number: **5 528 625**

Patent Country: **United States**

Date Patent Statement Received: **18.09.1997**

Remarks:  
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**Recommendation Number: V.90**

Id Number: V090-07

Organization: **Lucent Technologies**  
Main Contact: **Intellectual Property Department**  
Address: 150 Allen Road  
Liberty Corner, New Jersey 07938  
USA  
Tel. No.: +1 908 903 8037  
Fax. No.: +1 908 903 6329  
E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Modem with received signals and transmitted signals comprising signal sets**

Patent Number: **5 406 583**

Patent Country: **United States**

Date Patent Statement Received: **18.09.1997**

Remarks:  
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**Recommendation Number: V.90**

Id Number: V090-08

Organization: **Lucent Technologies**  
Main Contact: **Intellectual Property Department**  
Address: 150 Allen Road  
Liberty Corner, New Jersey 07938  
USA  
Tel. No.: +1 908 903 8037  
Fax. No.: +1 908 903 6329  
E-mail: stdslicensing@lucent.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus compensating for effects of digital loss insertion in signal transmission between modems**

Patent Number: **08/390 185 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **18.09.1997**

Remarks:  
-----

**Recommendation Number: V.90**

Id Number: V090-09

Organization: **Conexant Systems, Inc**  
Main Contact: **Legal department**  
Address: 4311 Jamboree Road, P.O. Box C  
Newport Beach, CA 92660-3095  
USA  
Tel. No.: +1 949 483 4600  
Fax. No.:  
E-mail: ip.license@mindspeed.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **08.12.1997**

Remarks: Informed from Conexant on 14 April 2003 that due to changes in corporate ownership, the patent statement previously made under the name of the Rockwell Corporation is changed to Conexant.

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**Recommendation Number: V.90**

Id Number: V090-10

Organization: **Data Race**  
Main Contact: **Corporate Headquarters**  
Address: 12400 Network Boulevard  
San Antonio, Texas 78249  
USA  
Tel. No.: +1 210 263 2000  
Fax. No.: +1 210 263 2075  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **4 597 073**

Patent Country: **United States**

Date Patent Statement Received: **22.12.1997**

Remarks:

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**Recommendation Number: V.90**

Id Number: V090-11

Organization: **Racal Corporation**  
Main Contact: **Chief Patent Counsel, Law Department**  
Address: 1601 North Harrison Parkway  
Sunrise, Florida 33323-2899  
USA  
Tel. No.: +1 954 846 5134  
Fax. No.: +1 954 846 5026  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **4 434 322**

Patent Country: **United States**

Date Patent Statement Received: **23.09.1997**

Remarks:  
-----

**Recommendation Number: V.90**

Id Number: V090-12

Organization: **Racal Corporation**  
Main Contact: **Chief Patent Counsel, Law Department**  
Address: 1601 North Harrison Parkway  
Sunrise, Florida 33323-2899  
USA  
Tel. No.: +1 954 846 5134  
Fax. No.: +1 954 846 5026  
E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number: **4 760 598**

Patent Country: **United States**

Date Patent Statement Received: **23.09.1997**

Remarks:  
-----

**Recommendation Number: V.90**

Id Number: V090-13

Organization: **Racal Corporation**  
Main Contact: **Chief Patent Counsel, Law Department**  
Address: 1601 North Harrison Parkway  
Sunrise, Florida 33323-2899  
USA  
Tel. No.: +1 954 846 5134  
Fax. No.: +1 954 846 5026  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Foreign counterpart)

Patent Title:

Patent Number: **4 797 898**

Patent Country: **United States**

Date Patent Statement Received: **23.09.1997**

Remarks:  
-----

**Recommendation Number: V.90**

Id Number: V090-14

Organization: **Racal Corporation**  
Main Contact: **Chief Patent Counsel, Law Department**  
Address: 1601 North Harrison Parkway  
Sunrise, Florida 33323-2899  
USA  
Tel. No.: +1 954 846 5134  
Fax. No.: +1 954 846 5026  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Foreign counterpart)

Patent Title:

Patent Number: **5 119 403**

Patent Country: **United States**

Date Patent Statement Received: **23.09.1997**

Remarks:

-----



**Recommendation Number: V.90**

Id Number: V090-15

Organization: **Townshend**  
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Menlo Pak, California 94025  
USA  
Tel. No.: +1 650 328 7250  
Fax. No.:  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition to a third party of satisfactory resolution of litigation relating to inequitable or illegal conduct of the third party)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.12.1997**

Remarks:  
-----

**Recommendation Number: V.90**

Id Number: V090-16

Organization: **Rockwell Semiconductor Systems**  
Main Contact: **Contracts and Technology Portfolio Management**  
Address: 4311 Jamboree Road, PO Box C  
Newport Beach, California 92658-8902  
USA  
Tel. No.: +1 949 221 5920  
Fax. No.: +1 949 221 4176  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **03.09.1997**

Remarks: Deleted due to overlapped inventory ( identified as V090-09)

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**Recommendation Number: V.90**

Id Number: V090-17

Organization: **VoCAL Technologies Ltd**

Main Contact:

Address: 200 John James Audubon Parkway  
Buffalo, New York 14228  
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Tel. No.: +1 716 688 4675

Fax. No.: +1 716 639 0713

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **04.09.1997**

Remarks:

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**Recommendation Number: V.90**

Id Number: V090-18

Organization: **Cirrus Logic, Inc - North Carolina Design Center**

Main Contact: **Vice President - Modem Engineering**

Address: 110 Horizon House Drive, Suite 300  
Raleigh, North Carolina 27615  
USA

Tel. No.: +1 919 870 5060

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E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **26.11.1997**

Remarks:

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**Recommendation Number: V.90**

Id Number: V090-19

Organization: **Paradyne Corporation**

Main Contact: **Intellectual Property Director**

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Largo, Florida 33773  
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Fax. No.: +1 813 532 5949

E-mail:

Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.09.1997**

Remarks:  
-----

**Recommendation Number: V.90**

Id Number: V090-20

Organization: **ESS Technology Inc**  
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Fax. No.: +1 510 492 1098  
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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **11.09.1997**

Remarks:  
-----

**Recommendation Number: V.90**

Id Number: V090-21

Organization: **International Business Machines Corporation**

Main Contact: **Mr. Richard Holleman, Director of Standards, Intellectual Property and Licensing**

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Tel. No.: +1 914 765 4375

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **29.01.1998**

Remarks:

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**Recommendation Number: V.90**

Id Number: V090-22

Organization: **PC-TEL Inc**

Main Contact: **Mr. Han Yeh, VP Technology, PC-TEL Inc.**

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Fax. No.: +1 408 895 0181

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Licensing declaration: Pat. pol. 2.2

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **05.02.1998**

Remarks:

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**Recommendation Number: V.90**

Id Number: V090-23

Organization: **Matsushita Graphic Communication Systems, Inc.**  
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Fax. No.: +81 3 5434 7160  
E-mail: toshio.yoshida@rdmg.mgcs.mei.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Demodulator**

Patent Number: **5 946 348**

Patent Country: **United States**

Date Patent Statement Received: **27.03.1998**

Remarks:

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**Recommendation Number: V.90**

Id Number: V090-24

Organization: **VoCAL Technologies Ltd**

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USA

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Fax. No.: +1 716 639 0713

E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.03.1999**

Remarks:

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**Recommendation Number: V.90**

Id Number: V090-25

Organization: **Vedavalli Gomatam Krishnan**

Main Contact: **Mrs. Vedavalli Krishnan**

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USA

Tel. No.: +1 919 788 9099

Fax. No.:

E-mail: Vkrishnan@usa.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in Europe)

Patent Title: **Data bit to constellation symbol mapper**

Patent Number: **5 185 763**

Patent Country: **United States**

Date Patent Statement Received: **30.08.1999**

Remarks:  
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**Recommendation Number: V.90**

Id Number: V090-26

Organization: **Vedavalli Gomatam Krishnan**

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Tel. No.: +1 919 788 9099

Fax. No.:

E-mail: Vkrishnan@usa.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Radix mapping with variable number of symbols in mapping period**

Patent Number: **5 222 077**

Patent Country: **United States**

Date Patent Statement Received: **30.08.1999**

Remarks:  
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**Recommendation Number: V.90**

Id Number: V090-27

Organization: **Agere Systemes Inc.**  
Main Contact: **Mr. Viren Pathare, Licensing Manager, Intellectual Property**  
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Allentown, PA 18109-9138  
USA  
Tel. No.: +1 610 712 6906  
Fax. No.: +1 610 712 3467  
E-mail: pathare@agere.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Trellis-coding method and arrangement fro fractional bit rates**

Patent Number: **4 941 154**

Patent Country: **United States**

Date Patent Statement Received: **12.05.2003**

Remarks:

**Received after the approval of the Recommendation in September 1998.**

-----

**Recommendation Number: V.90**

Id Number: V090-28

Organization: **Agere Systemes Inc.**  
Main Contact: **Mr. Viren Pathare, Licensing Manager, Intellectual Property**  
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Allentown, PA 18109-9138  
USA  
Tel. No.: +1 610 712 6906  
Fax. No.: +1 610 712 3467  
E-mail: pathare@agere.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Structured quantizer for sources with memory**

Patent Number: **5 418 531**

Patent Country: **United States**

Date Patent Statement Received: **12.05.2003**

Remarks:

**Received after the approval of the Recommendation in September 1998.**

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**Recommendation Number: V.90**

Id Number: V090-29

Organization: **Agere Systemes Inc.**  
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Allentown, PA 18109-9138  
USA  
Tel. No.: +1 610 712 6906  
Fax. No.: +1 610 712 3467  
E-mail: pathare@agere.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **System and method for dinamically optimizing a symbol table and modem emplying the same**

Patent Number: **5 831 561**

Patent Country: **United States**

Date Patent Statement Received: **12.05.2003**

Remarks:

**Received after the approval of the Recommendation in September 1998.**

-----

**Recommendation Number: V.90 Issue2**

Id Number: V090issue2-01

Organization: **ESS Technology Inc**  
Main Contact: **Vice President, Telephony**  
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Fremont, California 94538  
USA  
Tel. No.: +1 510 492 1088  
Fax. No.: +1 510 492 1098  
E-mail:

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **19.10.1999**

Remarks:  
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**Recommendation Number: V.91**

Id Number: V091-01

Organization: **Conexant Systems, Inc**  
Main Contact: **Legal department**  
Address: 4311 Jamboree Road, P.O. Box C  
Newport Beach, CA 92660-3095  
USA  
Tel. No.: +1 949 483 4600  
Fax. No.:  
E-mail: ip.license@mindspeed.com

Licensing declaration: Pat. pol. 2.2 (Except if claim is made for patent infringement)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.12.1998**

Remarks: Informed from Conexant on 14 April 2003 that due to changes in corporate ownership, the patent statement previously made under the name of the Rockwell Corporation is changed to Conexant.

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**Recommendation Number: V.91**

Id Number: V091-02

Organization: **VoCAL Technologies Ltd**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **18.03.1999**

Remarks:

-----

**Recommendation Number: V.91**

Id Number: V091-03

Organization: **Matsushita Graphic Communication Systems, Inc.**  
Main Contact: **Mr. Toshio Yoshida, Intellectual Property Department**  
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Tokyo 153-8687  
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Tel. No.: +81 3 5434 7059  
Fax. No.: +81 3 5434 7160  
E-mail: toshio.yoshida@rdmg.mgcs.mei.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Demodulator**

Patent Number: **5 946 348**

Patent Country: **United States**

Date Patent Statement Received: **06.05.1999**

Remarks:

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**Recommendation Number: V.91**

Id Number: V091-04

Organization: **Infineon Technologies AG**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.08.1999**

Remarks:

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**Recommendation Number: V.91**

Id Number: V091-05

Organization: **Vedavalli Gomatam Krishnan**

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Fax. No.:

E-mail: Vkrishnan@usa.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in Europe)

Patent Title: **Data bit to constellation symbol mapper**

Patent Number: **5 185 763**

Patent Country: **United States**

Date Patent Statement Received: **30.08.1999**

Remarks:

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**Recommendation Number: V.91**

Id Number: V091-06

Organization: **Vedavalli Gomatam Krishnan**

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Fax. No.:

E-mail: Vkrishnan@usa.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Radix mapping with variable number of symbols in mapping period**

Patent Number: **5 222 077**

Patent Country: **United States**

Date Patent Statement Received: **30.08.1999**

Remarks:  
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**Recommendation Number: V.92**

Id Number: V092-01

Organization: **Vedavalli Gomatam Krishnan**

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E-mail: Vkrishnan@usa.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Data bit to constellation symbol mapper**

Patent Number: **5 185 763**

Patent Country: **United States**

Date Patent Statement Received: **20.01.2000**

Remarks:  
-----

**Recommendation Number: V.92**

Id Number: V092-02

Organization: **Vedavalli Gomatam Krishnan**

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E-mail: Vkrishnan@usa.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterpart in Europe.)

Patent Title: **Radix mapping with variable number of symbols in mapping period**

Patent Number: **5 222 077**

Patent Country: **United States**

Date Patent Statement Received: **20.01.2000**

Remarks:  
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**Recommendation Number: V.92**

Id Number: V092-03

Organization: **Motorola Information Systems Group**

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E-mail: Kirk.dailey@motorola.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.02.2000**

Remarks:  
-----

**Recommendation Number: V.92**

Id Number: V092-04

Organization: **Matsushita Graphic Communication Systems, Inc.**  
Main Contact: **Mr. Toshio Yoshida, Intellectual Property Department**  
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E-mail: toshio.yoshida@rdmg.mgcs.mei.co.jp

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **22.02.2000**

Remarks:

-----

**Recommendation Number: V.92**

Id Number: V092-05

Organization: **Conexant Systems, Inc**  
Main Contact: **Legal department**  
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Newport Beach, CA 92660-3095  
USA  
Tel. No.: +1 949 483 4600  
Fax. No.:  
E-mail: ip.license@mindspeed.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.10.2000**

Remarks:  
-----

**Recommendation Number: V.92**

Id Number: V092-06

Organization: **Intel Corporation**

Main Contact: **Mr. Stephen P. Balogh, Administrator, Digital Transmission Licensing**

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Hillsboro, Oregon 97124  
UUSA

Tel. No.: +1 408 765 1125

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E-mail: dtla@dtcp.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.11.2000**

Remarks:  
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**Recommendation Number: V.92**

Id Number: V092-07

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **09.11.2000**

Remarks:  
-----

**Recommendation Number: V.92**

Id Number: V092-08

Organization: **Agere Systemes Inc.**  
Main Contact: **Mr. Viren Pathare, Licensing Manager, Intellectual Property**  
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Fax. No.: +1 610 712 3467  
E-mail: pathare@agere.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **High-speed modem synchronized to a remote codec**

Patent Number: **Re 37 569**

Patent Country: **United States**

Date Patent Statement Received: **12.05.2003**

Remarks:

**Received after the approval of the Recommendation in March 2002.**

-----

**Recommendation Number: V.92**

Id Number: V092-09

Organization: **Cisco Systems Inc**  
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Fax. No.: +1 408 525 1003  
E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **23.05.2003**

Remarks:

**Received after the approval of the Recommendation in March 2002.**

-----

**Recommendation Number: V.150.1**

Id Number: V150\_1-01

Organization: **Cisco Systems Inc**  
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E-mail: rbarr@cisco.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **16.08.2002**

Remarks:

-----



**Recommendation Number: V.150.1**

Id Number: V150\_1-02

Organization: **Mindspeed Technologies Inc.**

Main Contact: **Legal Department**

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CA92660  
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Tel. No.: +1 949 579 3000

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E-mail: ip.license@mindspeed.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **06.09.2002**

Remarks:  
-----

**Recommendation Number: V.150.1**

Id Number: V150\_1-03

Organization: **Texas Instruments**  
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Tel. No.: +1 972 917 4436  
Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Modem transmission over packet networks**

Patent Number: **09 722 588 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **18.09.2002**

Remarks:  
-----

**Recommendation Number: V.150.1**

Id Number: V150\_1-04

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Low speed modem transmission over packet**

Patent Number: **09 750 140 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **18.09.2002**

Remarks:  
-----

**Recommendation Number: V.150.1**

Id Number: V150\_1-05

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Modem relay protocol redundancy for reliable low speed modem communications over OP networks**

Patent Number: **09 750 264 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **18.09.2002**

Remarks:  
-----

**Recommendation Number: V.150.1**

Id Number: V150\_1-06

Organization: **Texas Instruments**  
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Fax. No.: +1 972 917 4406  
E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method to measure throughput efficiency of low speed modem relay over packet networks**

Patent Number: **09 750 265 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **18.09.2002**

Remarks:  
-----

**Recommendation Number: V.150.1**

Id Number: V150\_1-07

Organization: **Texas Instruments**  
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E-mail: e-thompson@ti.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Voice/facsimile/modem call discrimination method for voice over packet networks**

Patent Number: **10 029 847 (appl. no.)**

Patent Country: **United States**

Date Patent Statement Received: **18.09.2002**

Remarks:  
-----

**Recommendation Number: V.150.1**

Id Number: V150\_1-08

Organization: **Agere Systems Inc.**

Main Contact: **Ms. Caroline D. Liott, Licensing Manager, Intellectual Property**

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Tel. No.: +1 610 712 3474

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E-mail: cliott@agere.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **10.01.2003**

Remarks:  
-----

**Recommendation Number: V.150.1**

Id Number: V150\_1-09

Organization: **Veraz Networks Ltd.**  
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Petach-Tikva 49517  
Israel  
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Fax. No.: +972 3 9287010  
E-mail: Israel.zohar@ecitele.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Efficient transmission of VOIP traffic**

Patent Number: **IL 149165 (appl.no.)**

Patent Country: **Israel**

Date Patent Statement Received: **28.05.2003**

Remarks:  
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**Recommendation Number: V.150.1**

Id Number: V150\_1-10

Organization: **Veraz Networks Ltd.**  
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Tel. No.: +972 3 9266105  
Fax. No.: +972 3 9287010  
E-mail: Israel.zohar@ecitele.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and device for handling echo in A**

Patent Number: **IL 149847 (appl.no.)**

Patent Country: **Israel**

Date Patent Statement Received: **28.05.2003**

Remarks:  
-----

**Recommendation Number: V.150.1**

Id Number: V150\_1-11

Organization: **ECI Telecom Ltd.**  
Main Contact: **Dr. Gil Ingel, Intellectual Property Department**  
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Petach Tikva 49517  
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Tel. No.: +972 3 926 8534  
Fax. No.: +972 3 926 6876  
E-mail: gil.ingel@ecitele.com

Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Telecommunication system**

Patent Number: **Re 35 740**

Patent Country: **United States**

Date Patent Statement Received: **28.05.2003**

Remarks:  
-----

**Recommendation Number: V.150.1**

Id Number: V150\_1-12

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and system for determining gain scaling**

Patent Number: **6 424 940**

Patent Country: **United States**

Date Patent Statement Received: **28.05.2003**

Remarks:

-----

**Recommendation Number: V.152**

Id Number: V152-01

Organization: **ECI Telecom Ltd.**

Main Contact: **Dr. Gil Ingel, Intellectual Property Department**

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Fax. No.: +972 3 926 6876

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Telecommunication system**

Patent Number: **35 740**

Patent Country: **United States**

Date Patent Statement Received: **26.04.2004**

Remarks:  
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**Recommendation Number: V.152**

Id Number: V152-02

Organization: **ECI Telecom Ltd.**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and system for determining gain scaling**

Patent Number: **6 424 940**

Patent Country: **United States**

Date Patent Statement Received: **26.04.2004**

Remarks:  
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**Recommendation Number: V.152**

Id Number: V152-03

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Efficient transmission of VOIP traffic**

Patent Number: **03/08 86 14**

Patent Country: **WO**

Date Patent Statement Received: **17.05.2004**

Remarks:  
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**Recommendation Number: V.152**

Id Number: V152-04

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and device for handling echo**

Patent Number: **03/10 10 32**

Patent Country: **WO**

Date Patent Statement Received: **17.05.2004**

Remarks:  
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**Recommendation Number: V.152**

Id Number: V152-05

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method and apparatus for establishing modem connections over a packet network**

Patent Number: **6 683 888**

Patent Country: **United States**

Date Patent Statement Received: **13.12.2004**

Remarks:

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**Recommendation Number: V.152**

Id Number: V152-06

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Methods and apparatus for data communications on packet networks**

Patent Number: **6 788 651**

Patent Country: **United States**

Date Patent Statement Received: **13.12.2004**

Remarks:  
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**Recommendation Number: V.300**

Id Number: V300-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity, Patent applied for; no application number given)

Patent Title: **Verfahren zum Laufzeitausgleich fue Inversmultiplexer**

Patent Number:

Patent Country:

Date Patent Statement Received: **21.06.1999**

Remarks:

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**Recommendation Number: X.36**

Id Number: X036-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Data services retransmission procedure**

Patent Number: **5 222 061**

Patent Country: **United States**

Date Patent Statement Received: **05.09.1997**

Remarks:  
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**Recommendation Number: X.76**

Id Number: X076-01

Organization: **Lucent Technologies**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Data services retransmission procedure**

Patent Number: **5 222 061**

Patent Country: **United States**

Date Patent Statement Received: **05.09.1997**

Remarks:  
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**Recommendation Number: X.272**

Id Number: X272-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Canada and Europe)

Patent Title: **Method and apparatus for performing data compression**

Patent Number: **5 867 114**

Patent Country: **United States**

Date Patent Statement Received: **01.09.1999**

Remarks:  
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**Recommendation Number: X.272**

Id Number: X272-02

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Europe and the United States)

Patent Title: **Method and apparatus for performing simultaneous data compression and encryption**

Patent Number: **2 205 127 (appl. no.)**

Patent Country: **Canada**

Date Patent Statement Received: **01.09.1999**

Remarks:  
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**Recommendation Number: X.272**

Id Number: X272-03

Organization: **Mitel Corporation**

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Germany, the United Kingdom and the United States)

Patent Title: **Confusion Data Generator**

Patent Number: **2 243 093 (appl. no.)**

Patent Country: **Canada**

Date Patent Statement Received: **01.09.1999**

Remarks:  
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**Recommendation Number: X.272**

Id Number: X272-04

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity. Counterparts in Germany, the United Kingdom and the United States)

Patent Title: **Initializer for a confusion data generator**

Patent Number: **2 243 092 (appl. no.)**

Patent Country: **Canada**

Date Patent Statement Received: **01.09.1999**

Remarks:  
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**Recommendation Number: X.509**

Id Number: X509-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number: **5 699 431**

Patent Country: **United States**

Date Patent Statement Received: **18.03.1998**

Remarks:

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**Recommendation Number: Y.1304 Amd2**

Id Number: Y1304\_Amd2-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **02.11.2004**

Remarks: This Recommendation has a double numbering of G.8080 Amd2  
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**Recommendation Number: Y.1312**

Id Number: Y1312-01

Organization: **Nortel Networks Limited**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.12.2004**

Remarks:

**Received after the approval of the Recommendation in September 2003.**

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**Recommendation Number:**

Id Number: Y1313-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.12.2004**

Remarks:

**Received after the apporval of the Recommendatin in July 2004.**

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**Recommendation Number: Y.1413**

Id Number: Y1413-01

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Licensing declaration: Pat. pol. 2.1 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **23.03.2004**

Remarks:

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**Recommendation Number: Y.17ethoam**

Id Number: Y17\_ethoam-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Method, equipment and system for signalling in a network including Ethernet**

Patent Number: **EP 1246413**

Patent Country: **Israël**

Date Patent Statement Received: **14.09.2004**

Remarks:  
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**Recommendation Number: Y.1703**

Id Number: Y1703-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **07.05.2002**

Remarks:  
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**Recommendation Number: Y.1713**

Id Number: Y1713-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title:

Patent Number:

Patent Country:

Date Patent Statement Received: **15.04.2004**

Remarks:  
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**Recommendation Number: Y.1720**

Id Number: Y1720-01

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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Data communication networks with high performance and reliability**

Patent Number: **09 687348 (appl.no.)**

Patent Country: **United States**

Date Patent Statement Received: **24.10.2003**

Remarks:

**Received after the approval of the Recommendation in September 2003.**

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**Recommendation Number: Y.1720**

Id Number: Y1720-02

Organization: **Lucent Technologies Inc.**  
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Licensing declaration: Pat. pol. 2.2 (Under condition of reciprocity)

Patent Title: **Sequence number schemes for acceptance/rejection of duplicated packets in a packet-based network**

Patent Number: **10 261090 (appl.no.)**

Patent Country: **United States**

Date Patent Statement Received: **24.10.2003**

Remarks:

**Received after the approval of the Recommendation in September 2003.**

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