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June 15, 1995

Dr. Th. Irmer Director Telecommunication Standardization Bureau Place de Nations, Ch-1211 Geneva 20, Switzerland

Dear Dr. Irmer:

AT&T has been informed that your organization has produced recommendations in the area of speech coding technology. Several of these recommendations include technology for which AT&T has essential patents. The patent names, numbers and a list of countries where they are filed is shown in the attachment.

In accordance with paragraph 2.2 of the TSB Patent Policy, AT&T is not prepared to waive its patent rights, but would be willing to negotiate with other parties on a non-discriminatory basis on reasonable terms and conditions. Such negotiations will be held with the parties concerned and will be performed outside the ITU-TS.

Please contact our representative Tom Dodd (voice: +1 908 580 5924, fax +1 908 580 6026) concerning any licensing questions.

Sincerely,

James E. Lamar

Copy to:

ITU Study Group 15

AT&T Standards Secretariat

#### **Attachment**

#### **Contents:**

Section 1 Recommendation G.723
Section 2 Recommendation G.728
Section 3 Recommendation G.729

Section 4 Patents Issued by Country

# 1. Recommendation G.723 (Note this number may change due to duplicate ITU number)

6.4 kb/s and 5.6 kb/s Dual-Rate Video Telecommunications Speech Coder - CELP Based

**Essential AT&T Patents:** 

Atal-9

Atal-12

Jayant-9

Ketchum-3

### 2. Recommendation G.728

Coding of Speech at 16 kb/s Using Low-Delay Code Excited Linear Prediction

**Essential AT&T Patents:** 

Atal-9

Jayant-9

Chen-1

Chen-7

#### 3. Recommendation G.729

Coding of Speech at 8 kb/s Using Code Excited Linear Prediction

**Essential AT&T Patents:** 

Atal-9

Atal-12

Jayant-9

Ketchum-3

### 4. Patents Issued by Country

Sweden

USA

BS Atal 9-1	DIGITAL SPEECH CODER
<b>COUNTRY</b>	SERIAL/PATENT NUMBER
Canada	1181854
France	8219772
Germany	3244476
Great Britain	2110906
Japan	1332758
Sweden	PUB456618
120 1	

4674298-6

RE32580

## BS Atal 12 MULTIPULSE LPC SPEECH PROCESSING ARRANGEMENT

COUNTRY	SERIAL/PATENT NUMBER
Belgium	0175752
Canada	1222568
France	0175752
Great Britain	0175752
Netherlands	0175752
Sweden	0175752
Germany	3575624
USA	4701954

# NS Jayant 9-1 PREDICTIVE COMMUNICATION SYSTEM FILTERING ARRANGEMENT

COUNTRY	SERIAL/PATENT NUMBER
Austria Australia Belgium Canada France Germany Great Britain Italy	0192707 573035 0192707 1252842 0192707 3574804 0192707 0192707
	01)2101

NS Jayant 9-1

PREDICTIVE COMMUNICATION SYSTEM FILTERING

ARRANGEMENT

**COUNTRY** 

SERIAL/PATENT NUMBER

 Netherlands
 0192707

 Sweden
 0192707

 Switzerland
 0192707

 Taiwan
 25083

 USA
 4617676

J Chen 1

A LOW DELAY CODE-EXCITED LINEAR PREDICTIVE

CODING FOR SPEECH OR AUDIO SIGNALS

**COUNTRY** 

SERIAL/PATENT NUMBER

 Austria
 90300255.8

 Australia
 607363

 Taiwan
 042012

J Chen 7

CODE-EXCITED LINEAR PREDICTIVE CODING WITH LOW

DELAY FOR SPEECH OR AUDIO SIGNALS

**COUNTRY** 

SERIAL/PATENT NUMBER

**USA** 

5339384

RH Ketchum 3

CODE EXCITED LINEAR PREDICTIVE VOCODER USING

VIRTUAL SEARCHING

**COUNTRY** 

SERIAL/PATENT NUMBER

 Austria
 0296764

 Australia
 595719

 Belgium
 0296764

 France
 0296764

 Germany
 3874427.9

 Great Britain
 0296764

 Hong Kong
 0296764

RH Ketchum 3 CODE EXCIT

CODE EXCITED LINEAR PREDICTIVE VOCODER USING

VIRTUAL SEARCHING

**COUNTRY** 

SERIAL/PATENT NUMBER

Italy Notherland

02967649

Netherlands

0296764

Singapore

103

Sweden

0296764

USA

4910781