

**Patent Statement and Licensing Declaration***This declaration does not represent an implied license grant*

Please return to: Director  
Telecommunication Standardization Bureau  
International Telecommunication Union

Place des Nations  
CH-1211 Geneva 20, Switzerland  
Fax: +41 22 730 5853

G997.1-22

**Patent Holder/Organization:**

Legal Name Alcatel, 54, rue La Boétie, 75008 Paris, FRANCE

**Contact for license application:**

Name & Department Ulrich Knecht, Intellectual Property Group

Address 54, rue La Boétie

75008 PARIS - FRANCE

Tel. +33 1 4076 2863

Fax +33 1 4076 2880

E-mail Ulrich.Knecht@alcatel.com

URL (optional) www.alcatel.com

**ITU-T Recommendation:**

Number G.997.1 - Version 2006 (ploam/VDSL2)

Title Physical layer management for digital subscriber line (DSL) transceivers

**Licensing declaration**

The Patent Holder believes to hold granted patents and/or pending applications, whose use would be required to implement the above ITU-T Recommendation and hereby declares, in accordance with the Statement on ITU-T Patent Policy (see ITU-T website), that (check one box only).



1 The Patent Holder is prepared to grant – on the basis of reciprocity for the above ITU-T Recommendation – a free license to an unrestricted number of applicants on a worldwide, non-discriminatory basis and under other reasonable terms and conditions to make, use and sell implementations of the above ITU-T Recommendation.

Negotiations are left to the parties concerned and are performed outside the ITU-T.

*Also mark here \_\_\_\_\_ if the Patent Holder reserves the right to license on reasonable terms and conditions (but not for free) to applicants who are only willing to license their patent claims, whose use would be required to implement the above ITU-T Recommendation, on reasonable terms and conditions (but not for free).*



2 The Patent Holder is prepared to grant – on the basis of reciprocity for the above ITU-T Recommendation – a license to an unrestricted number of applicants on a worldwide, non-discriminatory basis and on reasonable terms and conditions to make, use and sell implementations of the above ITU-T Recommendation.

Negotiations are left to the parties concerned and are performed outside the ITU-T.

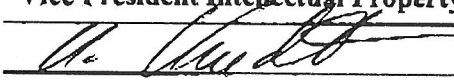


3 The Patent Holder is unwilling to grant licenses according to the provisions of either 1 or 2 above. In this case, the following information must be provided as part of this declaration:

- patent registration/application number;
- an indication of which portions of the Recommendation are affected;
- a description of the patent claims covering the Recommendation.

**Free:** The word "free" does not mean that the Patent Holder is waiving all of its rights with respect to the essential patent. Rather, "free" refers to the issue of monetary compensation; *i.e.*, that the Patent Holder will not seek any monetary compensation as part of the licensing arrangement (whether such compensation is called a royalty, a one-time licensing fee, etc.). However, while the Patent Holder in this situation is committing to not charging any monetary amount, the Patent Holder is still entitled to require that the implementer of the ITU-T Recommendation sign a license agreement that contains other reasonable terms and conditions such as those relating to governing law, field of use, reciprocity, warranties, etc.

**Reciprocity:** As used herein, the word "reciprocity" means that the Patent Holder shall only be required to license any prospective licensee if such prospective licensee will commit to license its essential patent(s) or essential patent claim(s) for implementation of the same ITU-T Recommendation for free or under reasonable terms and conditions.

**Signature**Organization **Alcatel**Name of authorized person **Ulrich Knecht**Title of authorized person **Vice President Intellectual Property**Signature Place, Date **Stuttgart, February 6, 2005**

FORM: 10 JULY 2004

Patent Information (desired but not required)			
No.	Registration Number/ Country	Title/ Inventor	Status [granted/ pending]
1	CN 1661995	DIGITAL SUBSCRIBER LINE MODEM WITH BITLOADING USING CHANNEL CONDITION MODEL / VAN BRUYSEL Danny/ SCHELSTRAETE Sigurd	pending
2	EP 1569402	DIGITAL SUBSCRIBER LINE MODEM WITH BITLOADING USING CHANNEL CONDITION MODEL / VAN BRUYSEL Danny/ SCHELSTRAETE Sigurd	pending
3	JP 2005-35846	DIGITAL SUBSCRIBER LINE MODEM WITH BITLOADING USING CHANNEL CONDITION MODEL / VAN BRUYSEL Danny/ SCHELSTRAETE Sigurd	pending
4	KR 10-2005-15713	DIGITAL SUBSCRIBER LINE MODEM WITH BITLOADING USING CHANNEL CONDITION MODEL / VAN BRUYSEL Danny/ SCHELSTRAETE Sigurd	pending
5	US 2005-0190826	DIGITAL SUBSCRIBER LINE MODEM WITH BITLOADING USING CHANNEL CONDITION MODEL / VAN BRUYSEL Danny/ SCHELSTRAETE Sigurd	pending