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SHEET

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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Philippe ANTOINE
Francois DERYCK
Pieter GEERAERTS
Thierry POLLET
Luc VANDENDORPE

2. Name and address of receiving party(ies):
ALCATEL
54, rue La Boetie
75008 Paris, FRANCE

Handwritten: A.L. 03

JC525 U.S. PTO
10/336815



Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: December 2, 2002

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: December 2, 2002
A. Patent Application No.(s)
B. Patent No.(s)

Additional numbers attached? Yes No
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5. Name and address of party to whom correspondence concerning document should be mailed:
SUGHRUE MION, PLLC
WASHINGTON OFFICE

23373
PATENT TRADEMARK OFFICE

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41): \$40.00
 Enclosed.
 Authorized to be charged to Deposit Account No. 19-4880.
The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.
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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.
Signature: David J. Cushing
Reg. No. 28,703
January 6, 2003
Date

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Assignment

Whereas, I/We, Philippe ANTOINE, Thierry POLLET, Francois Alain Roger DERYCK, Luc VANDENDORPE and Pieter GEERAETS of Walhain, Mechelen, Walhain-Saint-Paul, Louvain-La-Neuve and St-Martens-Latem, all in Belgium, hereinafter called assignor(s), have invented certain improvements in "Optimised Bit Allocation Adapted for VDSL"

and executed an application for Letters Patent of the United States of America therefor on _____; and

Whereas, ALCATEL
54, rue La Boétie
75008 PARIS
France

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director – U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number _____ and Confirmation number _____, filed _____) the filing date and application number of said application when known.

Date: 12/2/2002 Philippe ANTOINE.
s/Philippe ANTOINE
Date: 12/2/2002 THIERRY POLLET
s/Thierry POLLET
Date: 12/2/2002 FRANÇOIS DERYCK
s/Francois Alain Roger DERYCK
Date: 12/2/2002 LUC VANDENDORPE
s/Luc VANDENDORPE
Date: 12/2/2002 PIETER GEERAETS Pieter Geeraets
s/Pieter GEERAETS

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)