To the Honorable Commissioner of Patents:

1. Name of conveying party(ies):
   Joachim KABS
   Ingo KARLA

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

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

Execution Date: October 2, 2002 and October 7, 2002

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: October 2, 2002 and October 7, 2002
   A. Patent Application No.(s)
      10309087
   B. Patent No.(s)

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.

   David J. Cushing
   Reg. No. 28,703
   December 4, 2002

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:
   Commissioner of Patents & Trademarks
   Box Assignment
   Washington, D.C. 20231

PATENT
REEL: 013549 FRAME: 0715
Assignment

Whereas, I/We, Joachim KABS and Ingo KARLA of Leonberg, Germany and Schermbeck, Germany hereinafter called assignor(s), have invented certain improvements in

A method for manufacturing an optical module and optical module

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

Whereas, ALCATEL
54, rue La Boetie
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 ______________________) the filing date and application number of said application when known.

Date: 2.10.02 Joachim KABS

Date: 7.10.2002 Ingo KARLA

Date:

Date:

Date:

Date:

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