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Volker BRAUN  
Cornelis HOEK  
  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
ALCATEL  
54, rue La Boetie  
75008 Paris, France  
  
Additional name(s) & address(es) attached?  Yes  No

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10/663772  
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3. Nature of conveyance:  
 Assignment  Merger  
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Execution Date: November 11, 2002

4. Application number(s) or patent number(s): **10/663772**  
If this document is being filed together with a new application, the execution date of the application is: November 11, 2002  
A. Patent Application No.(s)  
B. Patent No.(s)  
  
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6. Total number of applications and patents involved:  
1

5. Name and address of party to whom correspondence concerning document should be mailed:  
SUGHRUE MION, PLLC  
WASHINGTON OFFICE  
**23373**  
CUSTOMER NUMBER

7. Total fee (37 CFR 3.41): \$40.00  
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**PATENT**  
**REEL: 014510 FRAME: 0386**

# Assignment

Whereas, I/We, Volker BRAUN and Cornelis HOEK of Stuttgart, Germany and Tamm, Germany hereinafter called assignor(s), have invented certain improvements in

Telecommunication system with transmit and multi-user diversity

and executed an application for Letters Patent of the United States of America therefor on November 11, 2002; and

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 \_\_\_\_\_, filed September 17, 2003) the filing date and application number of said application when known.

Date: Nov. 11, 02 V. Braun  
s/ Volker BRAUN

Date: Nov. 11, 02 C. Hoek  
s/ Cornelis HOEK

Date: \_\_\_\_\_  
s/

Date: \_\_\_\_\_  
s/

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