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To the Assistant Commissioner of Patents. Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Bruce Francis ORR

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

## 3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Names☐ Other

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☐ yes☒ no

Execution Date: May 31, 2000

## 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: May 31, 2000

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?

☐ Yes☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W.  
Suite 800  
Washington, D.C. 20037-3213

## 6. Total number of applications and registration involved:

1

## 7. Total Fee (37 CFR 3.41): \$40.00

☒ Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.☐ Authorized to be charged to Deposit Account

## 8. Deposit Account No.

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## 9. Statement and Signature.

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

June 20, 2000

Date

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Assistant Commissioner of Patents  
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## Assignment

Whereas, I, Bruce Francis ORR of 8, Glenside Street, Balgowlah, New South Wales 2093, Australia, hereinafter called assignor, have invented certain improvement in

### A BIDIRECTIONAL LOSS/SLOPE EQUALIZER ARRANGEMENT

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

May 31, 2000 ; 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, 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 Commissioner of Patents 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 my attorneys Sughrue, Mion, Zinn, Macpeak & Seas, 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

Date: 31st May 2000 Bruce Orr  
Bruce Francis ORR

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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