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To the Honorable Commissioner of P

10512 U.S. PTO  
09/28/99  
03/31/99

3-31-99

1. Name(s) of conveying party/parties:

Carlos Munoz-Bustamante Daniel E. McConnell  
David C. Challener

2. Name and address of receiving party

International Business Machines Corporation  
New Orchard Road  
Armonk, New York 10504

Additional Names Attached? Yes  No

3. Nature of Conveyance

Assignment  Merger  
 Security Agreement  Change of Name  
 Other:

Execution Date(s): March 30, 1999, March 29, 1999

Additional Names Attached?  Yes  No

4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is: March 30, 1999, March 29, 1999

A. Patent Application No(s)

B. Patent No(s)

Additional Numbers Attached? Yes  No

09-282733

5. Name and Address of party to whom correspondence concerning the document should be sent:

Name: Andrew J. Dillon

Internal Address:

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01 FC:581 (40.00 CH)

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Felsman, Bradley, Vaden, Gunter & Dillon  
Suite 350, Lakewood on the Park,  
7600 B North Capital of Texas Highway

City/State/Zip: Austin, TX 78731

6. Total Number of applications and patents involved:

7. Total fee (37 CFR 341) .....\$ 40.00

Enclosed

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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.

George E. Grosser

Name of Person Signing

*George E. Grosser*  
Signature

3/31/99  
Date

A S S I G N M E N T

Whereas, we,

(1) Carlos Munoz-Bustamante of Durham,  
County of Durham and State of North Carolina,

and  
(2) David C. Challener of Raleigh,  
County of Wake and State of North Carolina,

and  
(3) Daniel E. McConnell of Raleigh,  
County of Wake and State of North Carolina,

have invented certain improvements in

METHOD AND APPARATUS FOR SWITCHING OPTICAL SIGNALS WITHIN AN OPTOELECTRIC SYSTEM

and executed, respectively, a United States patent application therefor on (Dates Inventors Signed Declaration) (1) 29 March, 1999, and (2) March 30, 1999, 1999, and (3) 29 March, 1999.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(1) Signed at ATP, NC on 29 March, 1999.

Carlos Munoz-Bustamante  
Carlos Munoz-Bustamante

and (2) Signed at RTP, NC on March 30, 1999.

David C. Challener  
David C. Challener

and (3) Signed at RTP, NC on 29 March, 1999.

Daniel E. McConnell  
Daniel E. McConnell

Total Number of pages including cover sheet, attachments and document

4

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