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U.S.  
JAN 31 2001

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

1. Name of conveying party(ies):

JOHN THOMAS BADAR  
JOHN MACK ISAKSON  
HUAJUN WEN

2. Name and address of receiving party(ies):

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

3. Nature of conveyance:

Assignment

Execution Date: January 31, 2001

09/773191

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 January 31, 2001

A. Patent Application(s)

B. Patent No.(s)

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

Casimer K. Salys  
IBM Corporation  
Intellectual Property Law  
Internal Zip 4054  
11400 Burnet Road  
Austin, TX 78758  
(512) 823-0092

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

Authorized to be charged to deposit account

8. Deposit account number:

09-0447

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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.

Casimer K. Salys  
Name of Person Signing

Casimer K Salys 1/31/01  
Signature Date

Total number of pages including cover sheet: 3

**A S S I G N M E N T**

Whereas, we,

(1) John Thomas Badar of Austin  
County of Travis and State of Texas

and Mack [initials]

(2) John ~~Mark~~ Isakson of Austin  
County of Travis and State of Texas

and  
(3) Huajun Wen of Austin  
County of Travis and State of Texas

have invented certain improvements in

**PHASE MANIPULATION OF INTERTWINED BUS SIGNALS FOR REDUCTION OF HOSTILE  
COUPLING IN INTEGRATED CIRCUIT INTERCONNECTS**

and executed, respectively, a United States patent application therefore on  
(Dates Inventors Signed Declaration) (1) 1/31, 2001, (2)  
1/31/2001, 2001, and (3) 1/31, 2001.

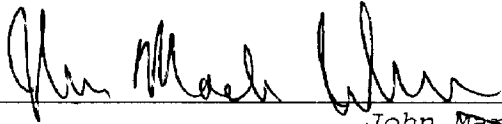
Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of  
New York, having a place of business at Armonk, New York 10504, (hereinafter  
called IBM), desires to acquire the entire right, title and interest in the  
said application and invention, and to any United States and foreign patents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

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 Austin on 1/31, 2001.

John Thomas Badar  
John Thomas Badar

and (2) Signed at Austin on 1/31/, 2001.

  
\_\_\_\_\_  
John Mark Isakson  
Mark Isakson

and (3) Signed at Austin on 1/31, 2001.

  
\_\_\_\_\_  
Huajun Wen