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1997 U.S. PTO 10/177323



To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- a) Brian W. Curran g) \_\_\_\_\_
- b) \_\_\_\_\_ h) \_\_\_\_\_
- c) \_\_\_\_\_ i) \_\_\_\_\_
- d) \_\_\_\_\_ j) \_\_\_\_\_
- e) \_\_\_\_\_ k) \_\_\_\_\_
- f) \_\_\_\_\_ l) \_\_\_\_\_

More names attached?   Y   X N

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

Name: INTERNATIONAL BUSINESS MACHINES CORPORATION  
 Address: New Orchard Road  
 Armonk, NY 10504

More names attached?   Y   X N

3. Nature of Conveyance:   X Assignment

4. Application number: Filed:  
 Filed with new application:   X yes    no

Execution date(s):

- a) June 18, 2002 g) \_\_\_\_\_
- b) \_\_\_\_\_ h) \_\_\_\_\_
- c) \_\_\_\_\_ i) \_\_\_\_\_
- d) \_\_\_\_\_ j) \_\_\_\_\_
- e) \_\_\_\_\_ k) \_\_\_\_\_
- f) \_\_\_\_\_ l) \_\_\_\_\_

Additional numbers attached?   Y   X N

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

Name: Lynn L. Augspurger  
 IBM Corporation  
 Intellectual Property Law  
 2455 South Road, P386  
 Poughkeepsie, NY 12601

6. Total # of applications and patents involved:   01

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

8. Charge to Deposit Account  
09-0463 (IBM).

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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.

Susan L. Nelson

[Signature]  
Signature

6/20/2002  
Date

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

Whereas, I

Inventor            Brian W. Curran            of Saugerties  
                         County of Ulster            and State of New York

have invented certain improvements in FREQUENCY DOUBLING TWO-PHASE CLOCK GENERATION CIRCUIT

and executed, respectively, a United States patent application therefor on


(1) 6-18-2002.

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, and, 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 and Trademarks to issue any Letters Patent granted upon the inventions 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.

Signed

(1)    at Poughkeepsie, NY  
      on 6-18-2002

  
\_\_\_\_\_  
Brian W. Curran