

A/P 581-40

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ASSIGNMENT COVER SHEET

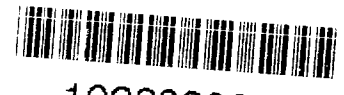
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Record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
**Gyan Bhanot, Matthias A. Blumrich, Dong Chen,  
Alan G. Gara, Mark E. Giampapa, Philip Heidelberger,  
Burkhard D. Steinmacher-Burow,  
Pavlos M. Vranas**

Name: **International Business Machines Corporation**  
Address: **New Orchard Road**

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other

City: **Armonk** State/Prov.: **New York**  
Country: **U.S.A.** ZIP: **10504**

4. Application number(s) of patent number(s):  
If this document is being filed together with a new application, the execution date of the application is: **4/17/02, 4/8/02, 4/8/02,**  
Patent Application No. Filing date  
**4/8/02, 4/8/02 respectively**

Additional name(s) & address(es)  Yes  No  
**10468991**  
B. Patent No.(s) **4/8/02, 4/8/02, 4/8/02, 4/8/02, 4/8/02**  
respectively

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **Steven Fischman**  
Registration No. **34,594**  
Address: **Correspondence Address**  
**Customer No. 23389**  
City: \_\_\_\_\_ State/Prov.: \_\_\_\_\_  
Country: \_\_\_\_\_ ZIP: \_\_\_\_\_

6. Total number of applications and patents involved: **1**  
7. Total fee (37 CFR 3.41):.....\$ **40.00**  
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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.*  
**Steven Fischman, Reg. No. 34,594** *Steven Fischman* **August 22, 2003**  
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**PATENT**  
**REEL: 014810 FRAME: 0807**

# ASSIGNMENT

Whereas, we

Inventor and City	(1) Gyan Bhanot County of Mercer	City of Princeton and State of New Jersey
and	(2) Matthias A. Blumrich County of Fairfield	City of Ridgefield and State of Connecticut
and	(3) Dong Chen County of Westchester	City of Croton On Hudson and State of New York
and	(4) Alan G. Gara County of Westchester	City of Mount Kisco and State of New York
and	(5) Mark E. Giampapa County of Westchester	City of Irvington and State of New York
and	(6) Philip Heidelberger County of Westchester	City of Cortlandt Manor and State of New York
and	(7) Burkhard D. Steinmacher-Burow County of Westchester	City of Mount Kisco and State of New York
and	(8) Pavlos M. Vranas County of Westchester	City of Bedford Hills and State of New York

have invented certain improvements in

Title ARITHMETIC FUNCTIONS IN TORUS AND TREE NETWORKS

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

Dates That Inventors Signed the Declaration	(1) 4/17	2002, and (2)	4/8	2002, and
	(3) 4/8	2002, and (4)	4/8	2002, and
	(5) 4/8	2002, and (6)	4/8	2002, and
	(7) 4/8	2002, and (8)	4/8	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, 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.

# ASSIGNMENT

City (1) Signed at YORKTOWN HTS, NY  
Date on 4/17/2002  
signature (Gyan Bhanot) inventor

City (2) Signed at Yorktown, NY  
Date on 4/8/2002  
signature (Matthias A. Blumrich) inventor

City (3) Signed at YORKTOWN HEIGHTS, NY  
Date on 04/08/2002  
signature (Dong Chen) inventor

City (4) Signed at YORKTOWN NY  
Date on 4/8/2002  
signature (Alan G. Gara) inventor

City (5) Signed at Yorktown, NY  
Date on 4/8/2002  
signature (Mark E. Giampapa) inventor

City (6) Signed at Yorktown Heights, NY  
Date on 4/8/02  
signature (Phillip Heidelberg) inventor

City (7) Signed at Yorktown, NY  
Date on April 8, 2002  
signature (Burkhard D. Steinmacher-Burow) inventor

City (8) Signed at YORKTOWN NY  
Date on 04/08/2002  
signature (Pavlos M. Vranas) inventor