FORM PTO-1595 1-31-92

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office Docket No. ROC920050437US1

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Commissioner for Patents. Please record the attached or	ginal documents or copy thereof.
Name of conveying party(ies):	Name and address of receiving
Mark S. Fredrickson	party(ies):
Chad B. McBride	Name: International Business Machines Corporation
Additional names of convertee as to the body	Internal Address:
Additional names of conveying party(ies) attached? ☐ ves	
3. Nature of Conveyance	
, and the second	Street Address: New Orchard Road
	City Armonk
Security Agreement	State New York Zip 10504
	Additional name(s) & address(es) attached? yes no
	yes 2 110
Execution Date: 02/06/2006	
Application number(s) or patent number(s);	
TITLE: TRADING PROPENSITY-BASED CLUSTERING	OF CIDCUIT ELEMENTS IN A CIDCUIT DESIGN
If this document is being filed together with a new application, the	execution date of the application is
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A. Patent Application No(s).	Patent No(s).
Serial No. 11/348,907	
Docket No. ROC920050437US1	
Additional numbers attac	ched? 🔲 Yes 🔯 No
	_ _
Name and address of party to whom correspondence	Total number of applications and patents involved: 1
concerning document should be mailed:	
	7. Total fee (37 CFR 3.41); \$.40.00
James R. Nock, Attorney	7. Total loc (07 of 11 3.41). \$\psi_{40.00}\$
IBM Corporation - Dept. 917	☐ Enclosed
3605 Highway 52 North Rochester, MN 55901-7829	☑ Authorized to be charged to deposit account
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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.	
100	n /
James R. Nock, Reg. No. 42.937 James 1. 7	February 20, 2006
Name of Person Signing Signature Date	
Signatu	

ASSIGNMENT

WHEREAS, we, <u>Mark S. Fredrickson</u>, residing at <u>4942 18-1/2 Avenue NW. Rochester</u>, <u>Minnesota 55901</u>; and <u>Chad B. McBride</u>, residing at <u>489 Manor Ridge Drive</u>, <u>Rochester</u>, <u>Minnesota 55901</u>, made certain new and useful inventions and improvements for which we executed an application for Letters Patent of the United States on <u>February 6</u>, <u>2006</u> and <u>February 6</u>, <u>2006</u>, respectively, which is entitled <u>TRADING PROPENSITY-BASED CLUSTERING OF CIRCUIT ELEMENTS IN A CIRCUIT DESIGN</u>.

AND WHEREAS, <u>INTERNATIONAL BUSINESS MACHINES CORPORATION</u>, a corporation organized and existing under and by virtue of the laws of the State of <u>New York</u>, and having an office and place of business at <u>New Orchard Road</u>. <u>Armonk</u>, <u>New York 10504</u> (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

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AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

Date

Mark S. Fredrickson

Date

Chad B. McBride

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