

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Gregory Costrini</td><td>01/02/2007</td></tr><tr><td>Ramachandra Divakaruni</td><td>12/26/2006</td></tr><tr><td>Jeffrey P. Gambino</td><td>12/08/2006</td></tr><tr><td>Randy W. Mann</td><td>12/14/2006</td></tr></tbody></table>	Name	Execution Date	Gregory Costrini	01/02/2007	Ramachandra Divakaruni	12/26/2006	Jeffrey P. Gambino	12/08/2006	Randy W. Mann	12/14/2006	
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Jeffrey P. Gambino	12/08/2006										
Randy W. Mann	12/14/2006										
RECEIVING PARTY DATA											
Name:	International Business Machines Corporation										
Street Address:	New Orchard Road										
City:	Armonk										
State/Country:	NEW YORK										
Postal Code:	10504										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11621699</td></tr></tbody></table>	Property Type	Number	Application Number:	11621699							
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Application Number:	11621699										
CORRESPONDENCE DATA											
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NAME OF SUBMITTER:	Kerry B. Goodwin										
Total Attachments: 2											
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PATENT
REEL: 018869 FRAME: 0989

PATENT ASSIGNMENT FORM

For and in consideration of good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor acknowledges his/her prior and ongoing obligation to sell, assign, and transfer, and agrees to sell, assign, and transfer the entire world wide right, title and interest for the United States and all foreign countries, in and to any and all inventions and improvements conceived during and within the scope of his/her employment, and further acknowledges that he/she has sold, assigned, and transferred, and hereby sells, assigns, and transfers, unto:

**INTERNATIONAL BUSINESS MACHINES CORPORATION ("IBM")
Armonk, New York 10504**

a corporation of New York, and IBM desires to acquire all right, title, and interest, in and to the certain inventions (identified below), applications, and any United States and foreign patents to be obtained therefor relating to:

Title of Invention for **ELECTRICALLY CONDUCTIVE PATH FORMING BELOW BARRIER OXIDE LAYER AND INTEGRATED CIRCUIT**

as set forth in a United States Patent Application identified by **Attorney Docket Number FIS920060357US1**; and

(select one): ☒ executed concurrently herewith **or** ☐ Serial No. _____ Filed on _____

including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States and foreign patents and all rights of priority to be obtained therefor which may issue on any such application or for said invention therein disclosed, including any and all reissues or extensions thereof, to be held and enjoyed by, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each undersigned inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to IBM, its successors and assigns, in accordance herewith;

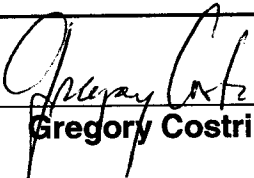
Each undersigned inventor warrants and covenants that he/she has the full and unencumbered right to sell and assign the interests hereby sold and assigned and that he/she has not executed and will not execute any document or instrument in conflict herewith;

Each undersigned inventor further covenants and agrees that he/she, upon the request and at the expense of IBM, will execute and deliver any papers, make all rightful oaths, testify in any legal proceeding relating to said inventions and improvements, communicate to IBM all facts known to the undersigned relating to such inventions and improvements and the history thereof; and perform all other lawful acts deemed necessary or desirable by IBM, and its legal representatives, to secure, maintain, and enforce patent protection for such inventions and improvements and for vesting title to such inventions and improvements in the invention(s), and in particular to perfect title to said above-identified certain inventions, and applications including divisions and continuations thereof, and any and all Letters Patent which may be granted therefor or thereon, including reissues, extensions, or counterparts;

Each undersigned inventor hereby grants IBM and the firm of Hoffman, Warnick & D'Alessandro LLC the power to insert in this Assignment any further identification which may be necessary or desirable for recordation of this Assignment.

This assignment is governed by the substantive laws of the state of New York.

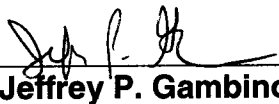
Executed by Inventor 1 of 4

Signature:  Date: 1-2-07
Gregory Costrini

Executed by Inventor 2 of 4

Signature:  Date: 12/26/06
Ramachandra Divakaruni

Executed by Inventor 3 of 4

Signature:  Date: 12/8/06
Jeffrey P. Gambino

Executed by Inventor 4 of 4

Signature:  Date: 12/14/06
Randy W. Mann