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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT	APPLICATION NUMBER 10/707996
NATURE OF CONVEYANCE:	ASSIGNMENT OF ASSIGNOR	

CONVEYING PARTY DATA

Name	Execution Date
Daniel C. Edelstein	2003-12-11
Matthew E. Colburn	2003-12-15
Edward C. Cooney, III	2003-12-15
Timothy J. Dalton	2003-12-15
John A. Fitzsimmons	2003-12-12
Jeffrey P. Gambino	2003-12-15
Elbert E. Huang	2003-12-15
Michael W. Lane	2003-12-15
Vincent J. McGahay	2004-01-28
Lee M. Nicholson	2003-12-12
Satyanarayana V. Nitta	2003-12-15
Sampath Purushothaman	2003-12-15
Sujatha Sankaran	2003-12-15
Thomas M. Shaw	2003-12-11
Andrew H. Simon	2003-12-17
Anthony K. Stamper	2003-12-15

RECEIVING PARTY DATA

Name	Street Address	Internal Address	City	State/Country	Postal Code
International Business Machines Corporation	New Orchard Road		Armonk	NEW YORK	10504

CORRESPONDENCE DATA

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Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the official record on file at the USPTO.

CUSTOMER NUMBER: 032074

NAME OF PERSON SIGNING:	Margaret A. Pepper
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PATENT REEL: 014296 FRAME: 0430

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DATE SIGNED:	2004-01-28
Total Attachments: 9	
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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 DEVICE AND METHODOLOGY FOR REDUCING EFFECTIVE DIELECTRIC CONSTANT IN SEMICONDUCTOR DEVICES United States Patent

as set forth in United States Patent Application executed by each undersigned inventor on the date indicated by each inventor signature below, and further identified by Attorney Docket Number FIS920030232US1 ; (select one):
⊠ executed concurrently herewith or □ Serial No Filed on
for and to said United States Patent Application 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 the IBM, will execute and deliver any papers, make all rightful oaths, testify in any legal proceeding relating to said inventions and improvements, communicate to the 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 IBM, 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 the IBM and the firm of 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.
Signature: Daniel C. Edelstein Executed by Inventor 1 of 16 Daniel C. Edelstein
Executed by Inventor 2 of 16
Signature:Date:

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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:

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as set forth in United States Patent Application executed by each undersigned inventor on the date included by as set forth in United States Patent Application executed by each undersigned inventor on the date included by attorney Docket Number FIS920030232US1; (select one): Inventor signature below, and further identified by Attorney Docket Number FIS920030232US1; (select one):	
inventor signature below, and further identified by Attorney Both Filed on Filed on Executed concurrently herewith or Senal No Filed on Executed concurrently herewith or Senal No Filed on Executed concurrently herewith or Senal No Filed on	
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for and to said United States Patent Application including any and all divisions or continuations therefor 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 the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been the term or terms for which are the term of the terms of the ter	he eld
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and enjoyed by the undersigned had this Assignment and Each undersigned inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue Each undersigned inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue Each undersigned inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue Each undersigned inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue Each undersigned inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue Each undersigned inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue Each undersigned inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue Each undersigned inventor hereby authorizes and requests and assigns, in accordance herewith:	
any and all such Letters I attend to sell and	
Each undersigned invertor warrants and covenants that he/she has the full and unencumbered right to sell and each undersigned invertor warrants and covenants that he/she has not executed and will not execute any docume assign the interests hereby sold and assigned and that he/she has not executed and will not execute any docume assign the interests hereby sold and assigned and that he/she has not executed and will not execute any docume	nt
THE PARTIES OF THE PA	t
Each undersigned inventor further covenants and agrees that he/she, upon the request and at the expense of the IBM, will execute and deliver any papers, make all rightful oaths, testify in any legal proceeding relating to said IBM, will execute and deliver any papers, make all rightful oaths, testify in any legal proceeding relating to such inventions and improvements, communicate to the 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 IB and improvements and the history thereof; and perform all other lawful acts deemed necessary or desirable by IB and improvements and inventions and improvements in the IBM, and in particular to perfect the improvements and for vesting title to such inventions and improvements in the IBM, and in particular to perfect the improvements and for vesting title to such inventions including divisions and continuations thereof, and any said above-identified certain inventions, and applications including reissues, extensions, or counterparts; all Letters Palent which may be granted therefor or thereon, including reissues, extensions, or counterparts;	IM, le to ind
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This assignment is governed by the substantive laws of the state of New York,	
the state of the s	
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Signature Daniel & Cedetil Date 12/15/03	
Daniel C. Edelstein	
Executed by Inventor 2 of 16	
Signature:	
Matthew E. Colburn PATENT	
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Signature:	al Com	Date: /2/15/03
	Edward C. Cooney III	
		Executed by Inventor 4 of 16
Signature:	Timothy J. Dalton	Date:
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		Executed by Inventor 5 of 18
Signature:		Date:
	John A. Fitzsimmons	
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Signature:	Deffrey P. Gambino	Date:
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Signature:	53. 45. 4	Date:
	Elbert E. Huang	
		Executed by inventor 8 of 16
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Signature:	Vincent J. McGahay	Date: 1/28/04
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		Executed by Inventor 10 of 16
Signature:	Lee M. Nicholson	Date:

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Signature:	Edward C. Cooney III	Date:	12/15/03
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Signature:	John A. Fitzsimmons	Date:	
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Signature:	Elbert E. Huang	Date:	
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Signature:	Vincent J. McGahay	Date:	
		uted by Invantor 10 of 16	
Signature:	Lee M. Nicholson	Date:	

		Executed by Inventor 3 of 16
Signature:	Edward C. Cooney III	Date:
Signature:	Timothy J. Dalton	Date: 12/15/63
Signature:	John A. Fitzsimmons	Executed by Inventor 5 of 16 Date: 12/12/2003
Signature:	Jeffrey P. Gambino	Executed by Inventor 6 of 16 Date:
Signature:	Elbert E. Huang	Executed by Inventor 7 of 16 Date:
Signature:	Michael W. Lane	Executed by Inventor 8 of 16 Date:
Signature:		Executed by Inventor 9 of 16 Date:
	Vincent J. McGahay	Executed by Inventor 10 of 16
Signature:	Lee M. Nicholson	Date: 12/12/03

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		Executed by Invertor 3 of 18
		Date:
Signature	Edward C. Cooney III	Date:
		Executed by inventor 4 of 18
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Signature	Timothy J. Dalton	Date:
		Executed by Inventor 5 of 16
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Signature.	John A. Fitzsimmons	
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olgratore:	Jeffrey P. Gambino	
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Signature:	Elbert E. Huang	Date:
	Elbert E. Huang	
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Signature:	Melule	Date: 12/15/03
Signature	Michael W. Lane	
		Executed by inventor 9 of 16
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Signature:	Vincent J. McGahay	
		Executed by Invantor 10 of 16
Signature:	Lee M. Nicholson	Date:
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	Executed by Inventor 11 of 16
Signature:	Satyanarayana V. Nitta
Signature:	Sampath Purushothaman
	Executed by Inventor 13 of 16
Signature:	Executed by Inventor 14 of 16 Shares M. Shaw Date: 12 /11/03 Thomas M. Shaw
	Executed by Inventor 15 of 16
Signature:	Andrew H. Simon Executed by Inventor 16 of 16
Signature:	

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Signature:	Edward C. Cooney III	Date:
	Edward C. Cooney III	
		Executed by inventor 4 of 16
Signature:	Timothy J. Dalton	Date:
	Timothy J. Dallon	
		Executed by Inventor 5 of 16
Signature:	John A. Fitzsimmons	Date:
	JOHN A. FIRZSHIMOIS	
		Executed by Inventor 6 of 16
Signature:	Jeffzey P. Gambing	Date:
		Executed by inventor 7 of 16
Signature:	Elbert E. Huang	Date: 12/15/3
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	Michael W. Lane	, ,
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Signature:	Vincent I McCabou	Date:
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21		Executed by Inventor 10 of 16
signature:	Lee M. Nicholson	Date:

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REEL: 014296 FRAME: 0440

	Executed by Inventor 11 of 16
Signature:	Date:
	Executed by Inventor 12 of 16
Signature:	Date:
	Executed by Inventor 13 of 16
Signature:	Sujatha Sankaran Date: 12 15 03
C	Executed by Inventor 14 of 16
Signature:	Showas M. Show Date: 12/11/03 Thomas M. Shaw
	Executed by Inventor 15 of 16
Signature:	Andrew H. Simon Date: 12 17 03
	Executed by Inventor 16 of 16
Signature:	Date: 12-15-2003

RECORDED: 01/30/2004