

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the Assignee previously recorded on Reel 023172 Frame 0282. Assignor(s) hereby confirms the International Business Machines Corporation, New Orchard Road, Armonk, New York 10504.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Matthew J. Breitwisch	08/27/2009
Chandrasekharan Kothandaraman	08/28/2009
Chung H. Lam	08/27/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	International Business Machines Corporation
<b>Street Address:</b>	New Orchard Road
<b>City:</b>	Armonk
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10504
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12549997
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(860)286-0115
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	860-286-2929
<b>Email:</b>	slovefoxworth@cantorcolburn.com
<b>Correspondent Name:</b>	CANTOR COLBURN LLP
<b>Address Line 1:</b>	20 church Street
<b>Address Line 2:</b>	22nd Floor
<b>Address Line 4:</b>	Hartford, CONNECTICUT 06103
<b>ATTORNEY DOCKET NUMBER:</b>	YOR920090110AUS1
<b>NAME OF SUBMITTER:</b>	Deidre M. Davis

CH \$40.00 12549997

**500975054**

**PATENT  
 REEL: 023298 FRAME: 0778**

**Total Attachments: 8**

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**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

**08/31/2009  
 500950136**

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Matthew J. Breitwisch	08/27/2009
Chung H. Lam	08/27/2009
Chandrasekharan Kothandaraman	08/28/2009

**RECEIVING PARTY DATA**

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

Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION
Street Address:	NEW ORCHARD ROAD
City:	ARMONK
State/Country:	NEW YORK
Postal Code:	10504

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	12549997

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Fax Number: (860)286-0115  
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 Phone: 860-286-2929  
 Email: glucas@cantorcolburn.com  
 Correspondent Name: CANTOR COLBURN LLP  
 Address Line 1: 20 CHURCH STREET  
 Address Line 2: 22ND FLOOR

**CH \$40.00 12549997**

Address Line 4: HARTFORD, CONNECTICUT 06102

ATTORNEY DOCKET NUMBER:

YOR920090110US1

NAME OF SUBMITTER:

Deidre M. Davis, Reg. No. 52,797

Total Attachments: 4

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ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention: **SINGLE MASK ADDER PHASE CHANGE MEMORY ELEMENT**

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Serial Number: 12/549,997 (insert series code and serial number here if/when available)

Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned Inventor desires to grant to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

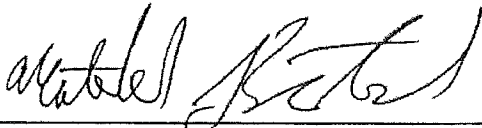
Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned Inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned Inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent application Serial Number) 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, and any disputes will be resolved in a New York state court or federal court sited in New York.

[Inventor Signature Page(s) Follows]

**Executed by Inventor 1**

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Signature:  Date: 27 Aug 2009  
**Matthew J. Breitwisch**

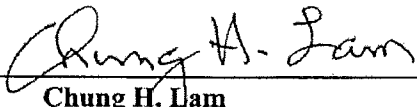
**Executed by Inventor 2**

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Chandrasekharan Kothandaraman**

**Executed by Inventor 3**

---

Signature:  Date: 27 Aug 2009  
**Chung H. Lam**

ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

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and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

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Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned Inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned Inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

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[Inventor Signature Page(s) Follows]

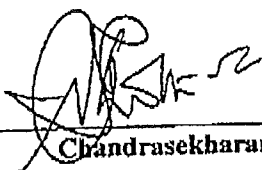
**Executed by Inventor 1**

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Matthew J. Breitwisch**

**Executed by Inventor 2**

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Signature:  \_\_\_\_\_ Date: 08/28/09  
**Chandrasekharan Kothandaraman**

**Executed by Inventor 3**

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Chung H. Lam**