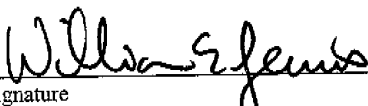


FORM PTO-1595		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies): Louis L.C. Hsu, Brian L. Ji, Chung Hon Lam and Hon-Sum Philip Wong			2. Name and address of receiving party(ies) Name: International Business Machines Corporation		
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Internal Address:		
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other			Street Address: New Orchard Road		
Execution Date(s): 8/1/05, 8/2/05, 8/2/05, 8/2/05			City: Armonk State: NY ZIP: 10504		
			Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is:					
A. Patent Application No.(s) 11/172,473		B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: William E. Lewis Internal Address: Ryan, Mason & Lewis, LLP Street Address: 90 Forest Avenue City: Locust Valley State: NY ZIP: 11560			6. Total number of applications and patents involved: <u>1</u>		
			7. Total Fee (37 CFR 3.41)..... \$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account		
			8. Deposit account number 50-0510		
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9. Statement and signature. <i>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.</i>					
<u>William E. Lewis</u> Reg. No. 39,274		 Signature		<u>August 9, 2005</u> Date	
Total number of pages including cover sheet, attachments, and document: <u>5</u>					
Do not detach this portion					
Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450					
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YOR920050141US1

700201785

PATENT
REEL: 016624 FRAME: 0271

Attorney Docket No. YOR920050141US1

ASSIGNMENT

Whereas, we

Inventor and City	(1) Louis L.C. Hsu County of Dutchess	of Fishkill and State of New York
	(2) Brian L. Ji County of Dutchess	of Fishkill and State of New York
	(3) Chung Hon Lam County of Westchester	of Peekskill and State of New York
	and (4) Hon-Sum Philip Wong County of Santa Clara	of Palo Alto and State of California

have invented certain improvements in

TITLE **NON-VOLATILE CONTENT ADDRESSABLE MEMORY USING PHASE-CHANGE-MATERIAL MEMORY ELEMENTS**

described in United States patent application Serial No. 11/172,473, filed on June 30, 2005 and executed on

DATE THAT INVENTORS SIGNED THE DECLARATION (1) 8/1/2005 (2) 8/2/2005 (3) 8/2/2005 and (4) _____ 2005.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at New Orchard Road, 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 inventions 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.

Attorney Docket No. YOR920050141US1

Signed
 (1) at Hopewell, NY
 on Aug 1 2005,

Louis L. Hsu SIGNATURE
 (Louis L. Hsu) INVENTOR
 FIRST NAME MIDDLE INITIAL LAST NAME

Signed
 (2) at Yorktown Heights, NY
 on Aug 2 2005,

Brian L. Ji SIGNATURE
 (Brian L. Ji) INVENTOR
 FIRST NAME MIDDLE INITIAL LAST NAME

Signed
 (3) at Yorktown Heights, NY
 on Aug 2 2005,

Chung Hon Lam SIGNATURE
 (Chung Hon Lam) INVENTOR
 FIRST NAME MIDDLE INITIAL LAST NAME

Signed
 (4) at _____, NY
 on _____ 2005,

_____ SIGNATURE
 (Hon-Sum Philip Wong) INVENTOR
 FIRST NAME MIDDLE INITIAL LAST NAME

Ryan, Mason & Lewis, LLP
 90 Forest Avenue
 Locust Valley, New York 11560
 (516) 759-2722

Attorney Docket No. YOR920050141US1

ASSIGNMENT

Whereas, we

Inventor and City	(1) Louis L.C. Hsu County of Dutchess	of Fishkill and State of New York
	(2) Brian L. Ji County of Dutchess	of Fishkill and State of New York
	(3) Chung Hon Lam County of Westchester	of Peekskill and State of New York
	and (4) Hon-Sum Philip Wong County of Santa Clara	of Palo Alto and State of California

have invented certain improvements in

TITLE NON-VOLATILE CONTENT ADDRESSABLE MEMORY USING PHASE-CHANGE-MATERIAL MEMORY ELEMENTS

described in United States patent application Serial No. 11/172,473, filed on June 30, 2005 and executed on

DATE THAT INVENTORS SIGNED THE DECLARATION (1) _____ 2005 (2) _____ 2005 (3) _____ 2005 and (4) Aug 2 . 2005.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at New Orchard Road, 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 inventions 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.

Attorney Docket No. YOR920050141US1

Signed
 (1) at _____, NY _____ SIGNATURE
 DATE on _____ 2005,
 (Louis L.C. Hsu) INVENTOR
 FIRST NAME MIDDLE INITIAL LAST NAME

Signed
 (2) at _____, NY _____ SIGNATURE
 DATE on _____ 2005,
 (Brian L. Ji) INVENTOR
 FIRST NAME MIDDLE INITIAL LAST NAME

Signed
 (3) at _____, NY _____ SIGNATURE
 DATE on _____ 2005,
 (Chung Hon Lam) INVENTOR
 FIRST NAME MIDDLE INITIAL LAST NAME

Palo Alto
 CITY and DATE Signed
 (4) at *Palo Alto, CA* _____ SIGNATURE
 on *Aug 2*, 2005,
 (Hon-Sum Philip Wong) INVENTOR
 FIRST NAME MIDDLE INITIAL LAST NAME

Ryan, Mason & Lewis, LLP
 90 Forest Avenue
 Locust Valley, New York 11560
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