Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Paul W. Coteus	02/07/2008
Luis A. Lastras-Montano	02/07/2008
Warren Edward Maule	03/05/2008
Barry M. Trager	02/11/2008
Shmuel Winograd	02/07/2008

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

Property Type	Number
Application Number:	12023408

CORRESPONDENCE DATA

Fax Number: (845)432-9601

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

 $\neg \Gamma$

Phone: 845-433-1174 Email: tonicat@us.ibm.com Correspondent Name: Lynn L. Augspurger Address Line 1: 2455 South Road

Address Line 2: MS P386

Address Line 4: Poughkeepsie, NEW YORK 12601

ATTORNEY DOCKET NUMBER:	POU920080030US1
NAME OF SUBMITTER:	Lynn L. Augspurger

PATENT REEL: 020648 FRAME: 0026

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Total Attachments: 3

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PATENT REEL: 020648 FRAME: 0027

ASSIGNMENT

	Whereas, we	
NVENTOR		
AND CITY	(1) Paul W. Coteus	of Yorktown Heights
	County of Westchester	State of New York
	(2) Luis A. Lastras-Montano	of Cortlandt Massor
	County of Westchester	State of New York
	(3) Warren Edward Maule	of Cedar Park
	County of Williamson	State of Texas
	(4) Barry M. Trager	of Yorktown Heights
	County of Westchester	State of New York
	(5) Shmusl Winograd	of Scarsdale
	County of Westchester	State of New York

TITLE

SYSTEM FOR ERROR CONTROL CODING FOR MEMORIES OF DIFFERENT TYPES AND ASSOCIATED METHODS

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at 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 in all foreign countries, and all rights of priority resulting from the filling 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.

Signed and sealed		
Stul W. Colo	on Feb 7	» , 2008
Paul W. Coleus		
	on <u>Feb. 7</u>	, 2008
Luis A. Lastras-Montano		
	on	, 2008
Warren Edward Maule		
	063	, 2008
Barry M. Trager		***********
send Wiggred	on Fab. 7	, 2008
Shmusel Winograd		

have invented certain improvements in

PATENT REEL: 020648 FRAME: 0028

ASSIGNMENT

Whereas, we	
(1) Paul W. Coleus	of Yorktown Heights
County of Westchester	State of New York
(2) Luis A. Lestres-Montano	of Cortlandt Manor
County of Westchester	State of New York
(3) Warren Edward Maule	of Ceder Park
County of Williamson	State of Texas
(4) Barry M. Trager	of Yorktown Heights
County of Westchester	State of New York
(5) Shmuel Winograd	of Scarsdale
County of Westchester	State of New York
have invented certain improvements In	
SYSTEM FOR ERROR CONTROL CODING FOR MEMORIES OF ASSOCIATED METHODS	DIFFERENT TYPES AND
	(1) Paul W. Coleus County of Westchester (2) Luis A. Lestres-Montano County of Westchester (3) Warren Edward Maule County of Williamson (4) Barry M. Trager County of Westchester (5) Shmuel Winograd County of Westchester have invented certain improvements In SYSTEM FOR ERROR CONTROL CODING FOR MEMORIES OF

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonik, 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;

How 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 in all foreign countries, and all rights of priority resulting from the filling 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.

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	OR	, 2008
Paul W. Coteus		
	(N)	, 2008
Luis A. Lastras-Montano		
	G N	, 2008
Warren Edward Maule		
Barry M. 1 rager	on Feb. 11	. 2008
Barry M. Trager		
	on	, 2008
Shmuel Winograd		

Signed and sealed:

PATENT REEL: 020648 FRAME: 0029

Docket No. POL/9200800308US1

ASSIGNMENT

INVENTOR	Misses ma	
AND CRY	(1) Paul W. Colleus County of Westchester	of Yorktown Heights State of New York
	(2) Luis A. Lastras-Montano County of Westchester	of Contlandt Manor State of New York
	(3) Warren Edward Maule County of Williamson	of Cedar Park State of Texas
	(4) Barry M. Trager County of Westchester	of Yorktown Heights State of New York
	(5) Stanuel Winograd County of Westchester	of Scarsdale State of New York
	have invented certain improvements in	
TITLE	SYSTEM FOR ERROR CONTROL CODING FOR M	EMORIES OF DIFFERENT TYPES AND

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Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to tBM, its successors and assigns, the entire right, title and interest in the said application and evention therein disclosed for the United States and loreign countries, and to all 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 loreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and loreign applications when called upon to do so by IBM.

A CONTRACTOR OF THE CONTRACTOR	
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Barry M. Trager	on200
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ASSOCIATED METHODS

PATENT REEL: 020648 FRAME: 0030

RECORDED: 03/13/2008

Signed and spained