

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Ying Chen</td><td>05/22/2008</td></tr><tr><td>Bin He</td><td>05/22/2008</td></tr><tr><td>Ana Lelescu</td><td>05/27/2008</td></tr></tbody></table>	Name	Execution Date	Ying Chen	05/22/2008	Bin He	05/22/2008	Ana Lelescu	05/27/2008	
Name	Execution Date								
Ying Chen	05/22/2008								
Bin He	05/22/2008								
Ana Lelescu	05/27/2008								
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									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12128264</td></tr></tbody></table>	Property Type	Number	Application Number:	12128264					
Property Type	Number								
Application Number:	12128264								
CORRESPONDENCE DATA									
Fax Number: (516)759-9512 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone: 516-759-2722									
Email: nyoffice@rml-law.com									
Correspondent Name: William E. Lewis									
Address Line 1: 90 FOREST AVENUE									
Address Line 2: RYAN, MASON & LEWIS, LLP									
Address Line 4: LOCUST VALLEY, NEW YORK 11560									
ATTORNEY DOCKET NUMBER:	ARC920080002US1								
NAME OF SUBMITTER:	William E. Lewis								
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PATENT

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REEL: 021009 FRAME: 0888

**ASSIGNMENT**

Docket No. ARC920080002US1

INVENTOR  
AND CITY

Whereas, we

(1) **Ying Chen**  
County of Santa Clara  
(2) **Bin He**  
County of Santa Clara  
And (3) **Ana Lelescu**  
County of Santa Clara

of San Jose,  
and State of California,  
of San Jose,  
and State of California,  
of Morgan Hill,  
and State of California,

have invented certain improvements in

TITLE

**METHODS AND APPARATUS FOR REUSE OPTIMIZATION OF A DATA STORAGE PROCESS  
USING AN ORDERED STRUCTURE**

DATES THAT  
INVENTORS  
SIGNED THE  
DECLARATION

and executed, respectively, a United States patent application therefor on

(1) 05/22, 2008, (2) 05/22, 2008 and (3) May 27, 2008

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 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.

Signed and sealed

Ying Chen  
Ying Chen

on May 22, 2008

Bin He  
Bin He

on May 22, 2008

Ana Lelescu  
Ana Lelescu

on May 27, 2008

**PATENT**

**RECORDED: 05/28/2008**

**REEL: 021009 FRAME: 0889**