

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Said Abdullah Ahmad</td><td>12/02/2005</td></tr><tr><td>Rhea Reyes Frondozo</td><td>11/30/2005</td></tr><tr><td>Kurt Allen Lovrien</td><td>11/30/2005</td></tr><tr><td>Jacob Lee Sheppard</td><td>12/02/2005</td></tr></tbody></table>		Name	Execution Date	Said Abdullah Ahmad	12/02/2005	Rhea Reyes Frondozo	11/30/2005	Kurt Allen Lovrien	11/30/2005	Jacob Lee Sheppard	12/02/2005
Name	Execution Date										
Said Abdullah Ahmad	12/02/2005										
Rhea Reyes Frondozo	11/30/2005										
Kurt Allen Lovrien	11/30/2005										
Jacob Lee Sheppard	12/02/2005										
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>11292646</td></tr></tbody></table>		Property Type	Number	Application Number:	11292646						
Property Type	Number										
Application Number:	11292646										
CORRESPONDENCE DATA											
Fax Number: (801)531-1929 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 801-994-4646											
Email: Hbabb@utahpatentlaw.com											
Correspondent Name: Brian C. Kunzler											
Address Line 1: 8 East Broadway, Suite 600											
Address Line 4: Salt Lake City, UTAH 84111											
ATTORNEY DOCKET NUMBER:	TUC920050143US1										
NAME OF SUBMITTER:	Brian C. Kunzler										
Total Attachments: 1 source=Assignment#page1.tif											

CH \$40.00 11292646

PATENT

500079305

REEL: 017184 FRAME: 0513

**ASSIGNMENT**

Whereas I/we

INVENTOR/CITY  
COUNTY/STATE(1) Said Abdullah Ahmad  
County of PimaCity of Tucson  
State of Arizona(2) Rhea Reyes Frondoza  
County of PimaCity of Tucson  
State of Arizona

TITLE

(3) Kurt Allen Lovrien  
County of PimaCity of Tucson  
State of ArizonaDATE(S) THAT  
INVENTOR(S)  
SIGNED THE  
DECLARATION(4) Jacob Lee Sheppard  
County of MaricopaCity of Gilbert  
State of Arizona

have invented certain improvements in

**APPARATUS, SYSTEM, AND METHOD FOR GLOBAL METADATA COPY REPAIR**

and executed, respectively, a United States patent application therefor on the following date(s):

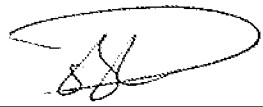
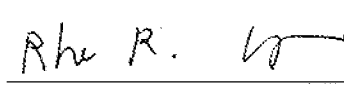
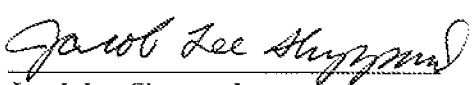
(1) 12/2/05(2) 11/30/05(3) 11/30/2005(4) 12/2/05

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;

CITY  
DATE

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, 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 I 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 I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed:

(1) at Tucson  
on 12/2/05  
Said Abdullah Ahmad(2) at Tucson  
on 11/30/05  
Rhea Reyes Frondoza(3) at Tucson  
on 11/30/2005  
Kurt Allen Lovrien(4) at Tucson  
on 12/2/2005  
Jacob Lee Sheppard**PATENT**