

## 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>Michael Thomas BENHASE</td><td>06/02/2008</td></tr><tr><td>Wendy Lynn WARD</td><td>06/05/2008</td></tr></tbody></table>	Name	Execution Date	Michael Thomas BENHASE	06/02/2008	Wendy Lynn WARD	06/05/2008	
Name	Execution Date						
Michael Thomas BENHASE	06/02/2008						
Wendy Lynn WARD	06/05/2008						
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>12135083</td></tr></tbody></table>	Property Type	Number	Application Number:	12135083			
Property Type	Number						
Application Number:	12135083						
CORRESPONDENCE DATA							
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Total Attachments: 1 source=TUC920070198US1_Assignment#page1.tif							

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PATENT

500759496

REEL: 022134 FRAME: 0599

ASSIGNMENT

Whereas, we

(1) Michael Thomas BENHASE of Tucson,  
State of Arizona, and  
County of Pima  
(2) Wendy Lynn WARD of Tucson,  
State of AZ, and  
County of Pima

have invented certain improvements in:

MAINTAINING INFORMATION OF A RELATIONSHIP OF TARGET VOLUMES COMPRISING  
LOGICAL COPIES OF A SOURCE VOLUME

and executed, respectively, a United States patent application therefore on:

(1) 6/2, 2008 and (2) 6/5, 2008

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New  
York, having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION),  
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 therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above  
named, hereby sell, assign, and transfer to IBM CORPORATION, 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 I request the Commissioner of Patents to issue any Letters Patent granted  
upon the invention set forth in said application to IBM CORPORATION, its successors and assigns; and I  
hereby agree that IBM CORPORATION 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 CORPORATION.

Signed and sealed

CITY (1) at Tucson  
DATE on 6/2, 2008

  
Michael Thomas BENHASE

SIGNATURE  
INVENTOR

CITY (2) at Tucson  
DATE on 6/5, 2008

  
Wendy Lynn WARD

SIGNATURE  
INVENTOR

PATENT