

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Kenneth W. Boyd	11/02/2007
Jeffrey W. Palm	10/11/2007
George O. Penokie	10/11/2007
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	International Business Machines Corporation
<b>Street Address:</b>	New Orchard Road
<b>City:</b>	Armonk
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10504
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	11871532
<b>CORRESPONDENCE DATA</b>	
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ATTORNEY DOCKET NUMBER:	ROC920070281US1
NAME OF SUBMITTER:	Grant A. Johnson

CH \$40.00 11871532

Total Attachments: 4  
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**ASSIGNMENT**

Whereas, we

- (1) Kenneth Wayne Boyd  
County of Pima  
City of Tucson,  
and State of Arizona,
- (2) Jeffrey William Palm  
County of Olmsted  
City of Rochester,  
and State of Minnesota,
- (3) George Oliver Penokie  
County of Olmsted  
City of Rochester,  
and State of Minnesota,

have invented certain improvements in

**METHOD, APPARATUS, COMPUTER PROGRAM PRODUCT, AND DATA STRUCTURE FOR PROVIDING AND UTILIZING HIGH PERFORMANCE BLOCK STORAGE METADATA**

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

Dates Inventors (1) 11/2/2007, 2007 (2) \_\_\_\_\_, 2007  
 Signed (3) \_\_\_\_\_, 2007  
 Declaration

And 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 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 invention 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**

Inventor (1) at Tucson, AZ Kenneth W. Boyd Inventor Signature  
 (Kenneth W. Boyd)  
 First Name Initial Last Name  
 on 11/2, 2007,

Inventor (2) at \_\_\_\_\_ Inventor Signature  
 (Jeffrey W. Palm)  
 First Name Initial Last Name  
 on \_\_\_\_\_, 2007,

Inventor  
(3)

at \_\_\_\_\_

\_\_\_\_\_  
(George O. Penokie)  
First Name Initial Last Name

Inventor  
Signature

on \_\_\_\_\_, 2007.

**ASSIGNMENT**

Whereas, we

- (1) Kenneth Wayne Boyd  
County of Pima City of Tucson,  
and State of Arizona,
- (2) Jeffrey William Palm  
County of Olmsted City of Rochester,  
and State of Minnesota,
- (3) George Oliver Penokie  
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and have executed, respectively, a United States patent application therefor on

Dates Inventors (1) \_\_\_\_\_, 2007 (2) October 11 \_\_\_\_\_, 2007  
 Signed (3) October 11 \_\_\_\_\_, 2007  
 Declaration

And 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 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 invention 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.

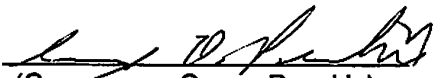
**Signed**

Inventor (1) at \_\_\_\_\_  
 \_\_\_\_\_  
 (Kenneth W. Boyd)  
 First Name Initial Last Name  
 on \_\_\_\_\_, 2007, Inventor Signature

Inventor (2) at Rochester, Minnesota  
 \_\_\_\_\_  
 (Jeffrey W. Palm)  
 First Name Initial Last Name  
 on 10-11, 2007, Inventor Signature

Inventor  
(3)

at Rochester, Minnesota



Inventor  
Signature

(George O. Penokie)  
First Name Initial Last Name

on 10/11, 2007.