

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>KENNETH WAYNE BOYD</td> <td>05/01/2007</td> </tr> <tr> <td>DONNA ENG DILLENBERGER</td> <td>04/27/2007</td> </tr> <tr> <td>ROBERT FREDERIC KERN</td> <td>04/02/2007</td> </tr> <tr> <td>WILLIAM FRANK MICKA</td> <td>04/04/2007</td> </tr> <tr> <td>JEFFREY WILLIAM PALM</td> <td>04/02/2007</td> </tr> <tr> <td>DAVID MICHAEL SHACKELFORD</td> <td>04/04/2007</td> </tr> <tr> <td>MARK FRANCIS WILDING</td> <td>05/03/2007</td> </tr> </tbody> </table>		Name	Execution Date	KENNETH WAYNE BOYD	05/01/2007	DONNA ENG DILLENBERGER	04/27/2007	ROBERT FREDERIC KERN	04/02/2007	WILLIAM FRANK MICKA	04/04/2007	JEFFREY WILLIAM PALM	04/02/2007	DAVID MICHAEL SHACKELFORD	04/04/2007	MARK FRANCIS WILDING	05/03/2007
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JEFFREY WILLIAM PALM	04/02/2007																
DAVID MICHAEL SHACKELFORD	04/04/2007																
MARK FRANCIS WILDING	05/03/2007																
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" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11734097</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11734097												
Property Type	Number																
Application Number:	11734097																
CORRESPONDENCE DATA																	
Fax Number:	(520)760-6659																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Phone:	520-760-6629																
Email:	jholcombe@cox.net																
Correspondent Name:	IBM CORPORATION																
Address Line 1:	9000 S RITA ROAD																
Address Line 2:	INTELLECTUAL PROPERTY LAW (90A/9032)																
Address Line 4:	TUCSON, ARIZONA 85744																
ATTORNEY DOCKET NUMBER:	TUC 920060202US2																

CH \$40.00 11734097

PATENT

500275431

REEL: 019284 FRAME: 0277

NAME OF SUBMITTER:

JOHN H HOLCOMBE

Total Attachments: 12

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RECORDATION FORM COVER SHEET
PATENTS ONLY

US Department of Commerce
Patent & Trademark Office

To the Honorable Commissioner for Patents: Please record the attached original documents in copy hereof.

1. Name of conveying party(ies): *
KENNETH WAYNE BOYD *
DONNA ENG DILLENBERGER *
ROBERT FREDERIC KERN *
WILLIAM FRANK MICKA *
JEFFREY WILLIAM PALM *
DAVID MICHAEL SHACKELFORD *
MARK FRANCIS WILDING *

2. Name and address of receiving party(ies): *
Name: **International Business** *
Machines Corporation *
Street Address: **New Orchard Road** *
City: **Armonk** State: **NY** Zip: **10504** *

Additional name(s) of conveying party(ies) attached ___ Yes **XX** No *
Additional name(s) & address(es) attached ___ Yes **XX** No *

3. Nature of conveyance: *
XX Assignment Execution Date: 05/01/2007; 04/27/2007; 04/02/2007; 04/04/2007; *
04/02/2007; 04/04/2007; 05/03/2007 *

4. Application number(s) or patent number(s): *
If this document is being filed together with a new application, the execution date of the application is: _____ *

A. Patent Application No.(s) *
11/734,097 *
Additional numbers attached? ___ Yes **XX** No *

5. Name and address of party to whom correspondence concerning document should be mailed: *
Name: **Kurt F. Goudy** *
Address: **IBM Corporation** *
Intellectual Property Law *
9000 S. Rita Road(90A/9032) *
Tucson, Arizona 85744 *

6. Total Number of applications and patents involved: One *

7. Total fee (37 CFR 3.411)..... 40.00 *
___ Enclosed *
XX Authorized to be charged to deposit account *
(Duplicate Copy Attached) *

8. Deposit Account Number: 09-0449 *

8. Statement and signature. *
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. *
John H. Holcombe *
John H. Holcombe *
Date: May 11, 2007 *

RECORDATION FORM COVER SHEET
PATENTS ONLY

US Department of Commerce
Patent & Trademark Office

To the Honorable Commissioner for Patents: Please record the attached original documents or maps thereof.

1. Name of conveying party(ies): KENNETH WAYNE BOYD DONNA ENG DILLENBERGER ROBERT FREDERIC KERN WILLIAM FRANK MICKA JEFFREY WILLIAM PALM DAVID MICHAEL SHACKELFORD MARK FRANCIS WILDING	2. Name and address of receiving party(ies): Name: International Business Machines Corporation Street Address: New Orchard Road City: Armonk State: NY ZIP: 10504 Additional name(s) & address(es) attached? ___ Yes <u>XX</u> No
Additional name(s) of conveying party(ies) attached ___ Yes <u>XX</u> No	

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A. Patent Application No.(s) **11/734,097**
B. Patent No.(s)

Additional numbers attached? **___ Yes XX No**

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Kurt P. Goudy Address: IBM Corporation Intellectual Property Law 9000 S. Rita Road(90A/9032) Tucson, Arizona 85744	6. Total Number of applications and patents involved: <u>One</u> 7. Total fee (37 CFR 3.41)..... <u>40.00</u> ___ Enclosed <u>XX</u> Authorized to be charged to deposit account (Duplicate Copy Attached) 8. Deposit Account Number: <u>09-0449</u>
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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John S. Holcombe
John S. Holcombe

May 11, 2007
Date

Total number of pages including cover sheet, attachments, and documents: 1-12-7

ASSIGNMENT

Docket No. TUC920060202US2
Page 1 of 2

Whereas, we

INVENTOR
AND CITY

- | | | |
|-----|--|--|
| (1) | KENNETH WAYNE BOYD
County of Pima | of Tucson,
and State of Arizona, |
| (2) | DONNA ENG DILLENBERGER
County of Westchester, | of Yorktown Heights,
and State of New York, |
| (3) | ROBERT FREDERIC KERN
County of Lincoln | of Otter Rock,
and State of Oregon, |
| (4) | WILLIAM FRANK MICKA
County of Pima | of Tucson,
and State of Arizona. |
| (5) | JEFFREY WILLIAM PALM
County of Olmsted | of Rochester,
and State of Minnesota, |
| (6) | DAVID MICHAEL SHACKELFORD
County of Pima | of Tucson,
and State of Arizona, |
| (7) | MARK FRANCIS WILDING
Barrie, Ontario, CANADA, | of |

have invented certain improvements in

TITLE **MAINTAIN OWNING APPLICATION INFORMATION OF DATA FOR A DATA
STORAGE SYSTEM**

DATE THAT
INVENTOR
SIGNED THE
DECLARATION

and executed, respectively, a United States patent application therefor on
(1) 5/1, 2007; (2) _____, 2007; (3) _____, 2007;
(4) 4/4, 2007; (5) _____, 2007; (6) 4/4, 2007;
(7) _____, 2007;

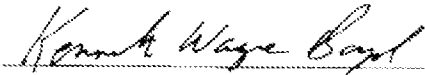
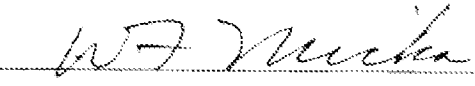
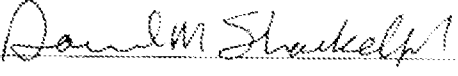
Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, 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

assignors; 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

CITY	(1) at Tucson, AZ		SIGNATURE
DATE	on 5/1, 2007	KENNETH WAYNE BOYD	INVENTOR
CITY	(2) at _____	_____	SIGNATURE
DATE	on _____, 2007	DONNA ENG DILLENBERGER	INVENTOR
CITY	(3) at _____	_____	SIGNATURE
DATE	on _____, 2007	ROBERT FREDERIC KERN	INVENTOR
CITY	(4) at Tucson, AZ		SIGNATURE
DATE	on 4/4, 2007	WILLIAM FRANK MICKA	INVENTOR
CITY	(5) at _____	_____	SIGNATURE
DATE	on _____, 2007	JEFFREY WILLIAM PALM	INVENTOR
CITY	(6) at Tucson, AZ		SIGNATURE
DATE	on 4/4, 2007	DAVID MICHAEL SHACKELFORD	INVENTOR
CITY	(7) at _____	_____	SIGNATURE
DATE	on _____, 2007	MARK FRANCIS WILDING	INVENTOR

ASSIGNMENT

Docket No. TUC920060202092
Page 1 of 2

Whereas, we

INVENTOR
AND CITY

- (1) KENNETH WAYNE BOYD of Tucson,
County of Pima and State of Arizona,
- DD* (2) DONNA ENG DILLENBERGER of Yorktown Heights,
County of Westchester, and State of New York,
- (3) ROBERT FREDERIC KERN of Otter Rock,
County of Lincoln and State of Oregon,
- (4) WILLIAM FRANK MICKA of Tucson,
County of Pima and State of Arizona,
- (5) JEFFREY WILLIAM PALM of Rochester,
County of Olmsted and State of Minnesota,
- (6) DAVID MICHAEL SHACKELFORD of Tucson,
County of Pima and State of Arizona,
- (7) MARK FRANCIS WILDING of
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(4) _____, 2007; (5) _____, 2007; (6) _____, 2007;
(7) _____, 2007;

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Signed

CITY	(1) at Tucson, AZ	_____	SIGNATURE
DATE	on _____, 2007	KENNETH WAYNE BOYD	INVENTOR
CITY	(2) at <u>Yorktown Hts, NY</u>	<u>Donna Eng Dillenberger</u>	SIGNATURE
DATE	on <u>4/27</u> , 2007	DONNA ENG DILLENBERGER	INVENTOR
CITY	(3) at _____	_____	SIGNATURE
DATE	on _____, 2007	ROBERT FREDERIC KERN	INVENTOR
CITY	(4) at Tucson, AZ	_____	SIGNATURE
DATE	on _____, 2007	WILLIAM FRANK MICKA	INVENTOR
CITY	(5) at _____	_____	SIGNATURE
DATE	on _____, 2007	JEFFREY WILLIAM PALM	INVENTOR
CITY	(6) at Tucson, AZ	_____	SIGNATURE
DATE	on _____, 2007	DAVID MICHAEL SHACKELFORD	INVENTOR
CITY	(7) at _____	_____	SIGNATURE
DATE	on _____, 2007	MARK FRANCIS WILDING	INVENTOR

ASSIGNMENT

Docket No. TUC920060202092
Page 1 of 2

Whereas, we

INVENTOR
AND CITY

(1) KENNETH WAYNE BOYD County of Pima	of Tucson, and State of Arizona,
(2) DONNA ENG DILLENBERGER County of Westchester,	of Yorktown Heights, and State of New York,
(3) ROBERT FREDERIC KERN County of Lincoln	of Otter Rock, and State of Oregon,
(4) WILLIAM FRANK MICKA County of Pima	of Tucson, and State of Arizona,
(5) JEFFREY WILLIAM PALM County of Olmsted	of Rochester, and State of Minnesota,
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(4) _____, 2007;	(5) _____, 2007;	(6) _____, 2007;
(7) _____, 2007;		


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DATE	on _____, 2007	KENNETH WAYNE BOYD	INVENTOR
CITY	(2) at _____	_____	SIGNATURE
DATE	on _____, 2007	DONNA ENG DILLENBERGER	INVENTOR
CITY	(3) at <u>CHICKA BOWL</u>		SIGNATURE
DATE	on <u>1/12</u> , 2007	ROBERT FREDERIC KERN	INVENTOR
CITY	(4) at Tucson, AZ	_____	SIGNATURE
DATE	on _____, 2007	WILLIAM FRANK MICKA	INVENTOR
CITY	(5) at _____	_____	SIGNATURE
DATE	on _____, 2007	JEFFREY WILLIAM PALM	INVENTOR
CITY	(6) at Tucson, AZ	_____	SIGNATURE
DATE	on _____, 2007	DAVID MICHAEL SHACKELFORD	INVENTOR
CITY	(7) at _____	_____	SIGNATURE
DATE	on _____, 2007	MARK FRANCIS WILDING	INVENTOR

ASSIGNMENT

Docket No. TUC920069202US2

Page 1 of 2

Whereas, we

INVENTOR
AND CITY

(1)	KENNETH WAYNE BOYD County of Pima	of Tucson, and State of Arizona,
(2)	DONNA ENG DILLENBERGER County of Westchester,	of Yorktown Heights, and State of New York,
(3)	ROBERT FREDERIC KERN County of Lincoln	of Otter Rock, and State of Oregon,
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(5)	JEFFREY WILLIAM PALM County of Olmsted	of Rochester, and State of Minnesota,
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(4) _____, 2007; (5) 4-2 _____, 2007; (6) _____, 2007;
(7) _____, 2007;

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10584, (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, 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

assignors; 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

CITY (1) at Tucson, AZ _____ SIGNATURE
 DATE on _____, 2007 KENNETH WAYNE BOYD INVENTOR

CITY (2) at _____ _____ SIGNATURE
 DATE on _____, 2007 DONNA ENG DILLENBERGER INVENTOR

CITY (3) at _____ _____ SIGNATURE
 DATE on _____, 2007 ROBERT FREDERIC KERN INVENTOR

CITY (4) at Tucson, AZ _____ SIGNATURE
 DATE on _____, 2007 WILLIAM FRANK MICKA INVENTOR

CITY (5) at Rochester, MN _____ SIGNATURE
 DATE on 4-2, 2007 JEFFREY WILLIAM PALM INVENTOR

CITY (6) at Tucson, AZ _____ SIGNATURE
 DATE on _____, 2007 DAVID MICHAEL SHACKELFORD INVENTOR

CITY (7) at _____ _____ SIGNATURE
 DATE on _____, 2007 MARK FRANCIS WILDING INVENTOR

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Docket No. TUC920060202US2
Page 1 of 2

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(1)	KENNETH WAYNE BOYD County of Pima	of Tucson, and State of Arizona,
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(4) _____, 2007; (5) _____, 2007; (6) _____, 2007;
(7) May 3, 2007;

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PATENT
REEL: 019284 FRAME: 0289

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DATE	on _____, 2007	KENNETH WAYNE BOYD	INVENTOR

CITY	(2) at _____	_____	SIGNATURE
DATE	on _____, 2007	DONNA ENG DILLENBERGER	INVENTOR

CITY	(3) at _____	_____	SIGNATURE
DATE	on _____, 2007	ROBERT FREDERIC KERN	INVENTOR

CITY	(4) at Tucson, AZ	_____	SIGNATURE
DATE	on _____, 2007	WILLIAM FRANK MICKA	INVENTOR

CITY	(5) at _____	_____	SIGNATURE
DATE	on _____, 2007	JEFFREY WILLIAM PALM	INVENTOR

CITY	(6) at Tucson, AZ	_____	SIGNATURE
DATE	on _____, 2007	DAVID MICHAEL SHACKELFORD	INVENTOR

CITY	(7) at <u>Markham, ON</u>		SIGNATURE
DATE	on <u>May 3</u> , 2007	MARK FRANCIS WILDING	INVENTOR