

PATENT

In place of Form PTO-1595

Attorney Docket Number: RP5920030224US1

RECORDATION FORM COVER SHEET - PATENTS

To the Commissioner for Patents: Please record the attached original document(s) or copy thereof:

1. Conveying party data and execution dates of Assignment:

CHARLES DOUGLAS BALL	May 4, 2004
RYAN CHARLES CATHERMAN	May 10, 2004
JAMES PATRICK HOFF	May 29, 2004
JAMES PETER WARD	May 17, 2004

2. Receiving party data:

International Business Machines Corporation	Additional names & addresses attached?
New Orchard Road; Armonk, NY 10504	Yes No X

3. Nature of conveyance: Assignment of Assignor's Interest.

4. Patent Application Number: 10/744,441

5. Address to where correspondence concerning document should be mailed:

CUSTOMER NUMBER 25299 IBM Corporation Dept. 9CCA/002 P.O. Box 1219 Research Triangle Park, NC 27709-2195	or faxed to (919) 254-2649
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6. Total number of applications and patents involved: 1

7. Total fee (37 CFR §3.41): \$40.00.

8. The Commissioner is hereby authorized to charge the fee to deposit account number 09-1990.

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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.

Amirah Scarborough Name of person signing	 Signature	June 1, 2004 Date
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Total number of pages including cover sheet, attachments and documents: 6

Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Division; Commissioner for Patents; P.O. Box 1450; Alexandria, VA 22313-1450

CH \$40.00 091990 10744441

PATENT

ASSIGNMENT

Whereas, I/ we,

- (1) **CHARLES DOUGLAS BALL**
County of Wake City of Raleigh
State of North Carolina
- (2) **RYAN CHARLES CATHERMAN**
County of Wake City of Raleigh
State of North Carolina
- (3) **JAMES PATRICK HOFF**
County of Wake City of Raleigh
State of North Carolina
- (4) **JAMES PETER WARD**
County of Wake City of Apex
State of North Carolina

have invented certain improvements in

Title:

KEY CACHE MANAGEMENT THROUGH MULTIPLE LOCALITIES

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

- (1) May 4, 2004
(Date)
- (2) MAY 10, 2004
(Date)
- (3) May 4, 2004
(Date)
- (4) May 17, 2004
(Date)

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 application and invention, and to any United States and foreign patents to be obtained therefor;

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Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I/we, the above named, hereby acknowledge my/our prior existing obligation and hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of the United States application, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to IBM, its successors and assigns; and I/we hereby agree that IBM may apply for foreign Letters Patent on the invention and I/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:

	<u>CITY/STATE</u>	<u>DATE</u>	<u>SIGNATURE</u>
(1)	<u>RTP, NC</u>	<u>5/4/04</u>	<u>Charles Douglas Ball</u> CHARLES DOUGLAS BALL
(2)	<u>RTP, NC</u>	<u>5/10/04</u>	<u>Ryan Charles Catherman</u> RYAN CHARLES CATHERMAN
(3)	<u>RTP, NC</u>	<u>5/4/04</u>	<u>JAMES PATRICK HOFF</u>
(4)	<u> </u>	<u> </u>	<u>JAMES PETER WARD</u>

2/4

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I/we, the above named, hereby acknowledge my/our prior existing obligation and hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of the United States application, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to IBM, its successors and assigns; and I/we hereby agree that IBM may apply for foreign Letters Patent on the invention and I/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:

	<u>CITY/STATE</u>	<u>DATE</u>	<u>SIGNATURE</u>
(1)	_____	_____	_____ CHARLES DOUGLAS BALL
(2)	_____	_____	_____ RYAN CHARLES CATHERMAN
(3)	<u>RTP, NC</u>	<u>May 29, 2004</u>	 _____ JAMES PATRICK HOFF
(4)	_____	_____	_____ JAMES PETER WARD

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I/we, the above named, hereby acknowledge my/our prior existing obligation and hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of the United States application, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to IBM, its successors and assigns; and I/we hereby agree that IBM may apply for foreign Letters Patent on the invention and I/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:

	<u>CITY/STATE</u>	<u>DATE</u>	<u>SIGNATURE</u>
(1)	_____	_____	<u>CHARLES DOUGLAS BALL</u>
(2)	_____	_____	<u>RYAN CHARLES CATHERMAN</u>
(3)	_____	_____	<u>JAMES PATRICK HOFF</u>
(4)	<u>RTP/NC</u>	<u>5/17/2004</u>	<u>James Peter Ward</u> <u>JAMES PETER WARD</u>

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