

DOCKET: BEA920040059US1

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PATENTS ONLYUS Department of Commerce
Patent & Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
Venkateswarara Jujjuri Malahal R. Naineni Rohit K. Prasad Senthil Rajaram Roger C. Raphael	Name: International Business Machines Corporation Street Address: New Orchard Road City: Armonk State: NY ZIP: 10504
Additional name(s) of conveying party(ies) attached <u>Yes</u> XX No	Additional name(s) & address(es) attached? <u>Yes</u> XX No

3. Nature of conveyance:

XX AssignmentExecution Date: December 17, 2004

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)
11/017,595

B. Patent No(s)

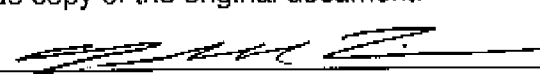
Additional numbers attached? Yes **XX** No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **IBM Corporation**
Internal
Address: **Intellectual Property Law**
Street
Address: **5600 Cottle Road (L2PA/0142)**
San Jose, CA 951936. Total Number of applications and patents involved: **One**7. Total fee (37 CFR 3.41).....\$ **40.00**
XX Enclosed (Credit Card Form)
 Authorized to be charged to deposit account8. Deposit Account Number: **501336**

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.


 Rochelle Lieberman, Registration No. 39,276

5/23/2005
 Date
Total number of pages including cover sheet, attachments, and document: 15/

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PATENT
REEL: 016272 FRAME: 0216

OP \$40.00 11017696

ASSIGNMENT**Docket No. BEA9-2004-0059-US1**

Whereas, WE

**INVENTOR
AND CITY**(1) Venkateswarara Jujjuri
County of Washington,City of Beaverton,
and State of Oregon,(2) Malahal R. Naineni
County of Washington,City of Beaverton,
and State of Oregon,(3) Rohit K. Prasad
County of Washington,City of Beaverton,
and State of Oregon,(4) Senthil Rajaram
County of MultnomahCity of Portland,
and State of Oregon,(5) Roger C. Raphael
County of Santa Clara,City of San Jose,
and State of California,

have invented certain improvements in

TITLE Achieving Cache Consistency While Allowing Concurrent Changes to Metadata**DATE THAT
INVENTOR
SIGNED THE**

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

(1) _____, 2004

(2) _____, 2004

(3) _____, 2004

(4) _____, 2004

(5) 12/17, 2004

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 inventions 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 and sealed

**PATENT
REEL: 016272 FRAME: 0217**

CITY DATE	(1) at on _____, 2004 INVENTOR	_____ SIGNATURE
CITY DATE	(2) at on _____, 2004 INVENTOR	_____ SIGNATURE
CITY DATE	(3) at on _____, 2004 INVENTOR	_____ SIGNATURE
CITY DATE	(4) at on _____, 2004 INVENTOR	_____ SIGNATURE
CITY DATE	(5) at <i>SAN JOSE</i> on <i>12/17</i> , 2004 INVENTOR	<i>Richard</i> _____ SIGNATURE

ASSIGNMENT**Docket No. BEA9-2004-0059-US1**

Whereas, WE

INVENTOR
AND CITY(1) Venkateswarara Jujuri
County of Washington,City of Beaverton,
and State of Oregon,(2) Malahal R. Naineni
County of Washington,City of Beaverton,
and State of Oregon,(3) Rohit K. Prasad
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(1) Dec 17, 2004(2) Dec 17, 2004(3) Dec 17th, 2004(4) 17th Dec, 2004

(5) _____, 2004

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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 inventions 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 and sealed

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DEC 17 2004 11:57 FR IBM CORP

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CITY DATE	(1) at Beaverton on <u>Dec 17</u> , 2004 INVENTOR	 _____ SIGNATURE
CITY DATE	(2) at Beaverton on <u>Dec 17</u> , 2004 INVENTOR	 _____ SIGNATURE
CITY DATE	(3) at Beaverton on <u>17th Dec</u> , 2004 INVENTOR	 _____ SIGNATURE
CITY DATE	(4) at BEAVERTON on <u>17th Dec</u> , 2004 INVENTOR	 _____ SIGNATURE
CITY DATE	(5) at on _____, 2004 INVENTOR	_____ SIGNATURE