

PATENT ASSIGNMENT

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Stylesheet Version v1.1

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>Jian Li</td><td>10/23/2008</td></tr><tr><td>Ramakrishnan Rajamony</td><td>10/23/2008</td></tr><tr><td>William E. Speight</td><td>10/23/2008</td></tr><tr><td>XiaoXia Wu</td><td>10/23/2008</td></tr><tr><td>Lixin Zhang</td><td>10/23/2008</td></tr></tbody></table>	Name	Execution Date	Jian Li	10/23/2008	Ramakrishnan Rajamony	10/23/2008	William E. Speight	10/23/2008	XiaoXia Wu	10/23/2008	Lixin Zhang	10/23/2008	
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Lixin Zhang	10/23/2008												
RECEIVING PARTY DATA													
Name:	International Business Machine 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>12264682</td></tr></tbody></table>	Property Type	Number	Application Number:	12264682									
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Application Number:	12264682												
CORRESPONDENCE DATA													
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CH \$40.00 12264682

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PATENT
REEL: 021784 FRAME: 0300

Total Attachments: 6

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PATENT

REEL: 021784 FRAME: 0301

ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention: IMPROVED NON-UNIFORM CACHE ARCHITECTURE (NUCA)

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Serial Number: 1 2 2 6 4 6 8 2 (insert series code and serial number here if/when available)

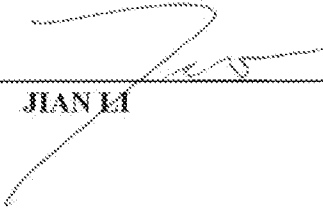
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Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned Inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned Inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

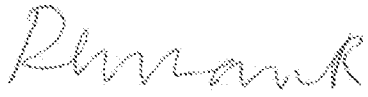
Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent application Serial Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

[Inventor Signature Pages Follow]

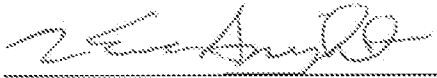
Executed by Inventor 1 of 5

Signature:  Date: 10/23/18
JIAN LI

Executed by Inventor 2 of 5

Signature:  Date: 10-23-2008
RAMAKRISHNAN RAJAMONY

Executed by Inventor 3 of 5

Signature:  Date: 12/23/08
WILLIAM E. SPEIGHT

Executed by Inventor 4 of 5

Signature:  Date: 10/23/2008
XIAOXIA WU

Executed by Inventor 5 of 5

Signature:  Date: 10-23-2008
LIXIN ZHANG