

PATENT ASSIGNMENT

Electronic Version v1.1
 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>Stefan Arndt</td> <td>06/26/2012</td> </tr> <tr> <td>Gopi K. Attaluri</td> <td>06/27/2012</td> </tr> <tr> <td>Ronald J. Barber</td> <td>06/24/2012</td> </tr> <tr> <td>Guy M. Lohman</td> <td>06/25/2012</td> </tr> <tr> <td>Lin Qiao</td> <td>06/25/2012</td> </tr> <tr> <td>Vijayshankar Raman</td> <td>06/25/2012</td> </tr> <tr> <td>Eugene J. Shekita</td> <td>06/24/2012</td> </tr> <tr> <td>Richard S. Sidle</td> <td>06/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	Stefan Arndt	06/26/2012	Gopi K. Attaluri	06/27/2012	Ronald J. Barber	06/24/2012	Guy M. Lohman	06/25/2012	Lin Qiao	06/25/2012	Vijayshankar Raman	06/25/2012	Eugene J. Shekita	06/24/2012	Richard S. Sidle	06/26/2012
Name	Execution Date																		
Stefan Arndt	06/26/2012																		
Gopi K. Attaluri	06/27/2012																		
Ronald J. Barber	06/24/2012																		
Guy M. Lohman	06/25/2012																		
Lin Qiao	06/25/2012																		
Vijayshankar Raman	06/25/2012																		
Eugene J. Shekita	06/24/2012																		
Richard S. Sidle	06/26/2012																		
RECEIVING PARTY DATA																			
<table border="1"> <tr> <td>Name:</td> <td>International Business Machines Corporation</td> </tr> <tr> <td>Street Address:</td> <td>New Orchard Road</td> </tr> <tr> <td>City:</td> <td>Armonk</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10504</td> </tr> </table>		Name:	International Business Machines Corporation	Street Address:	New Orchard Road	City:	Armonk	State/Country:	NEW YORK	Postal Code:	10504								
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"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13537745</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13537745														
Property Type	Number																		
Application Number:	13537745																		
CORRESPONDENCE DATA																			
Fax Number:	(424)229-6815																		
Phone:	424-229-6800																		
Email:	patent@sziplaw.com																		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																			
Correspondent Name:	SHERMAN & ZARRABIAN LLP (IBM2/IBM2-S)																		
Address Line 1:	1411 5th Street, Suite 306																		
Address Line 4:	Santa Monica, CALIFORNIA 90401																		

CH \$40.00 13537745

ATTORNEY DOCKET NUMBER:	ARC920120017US1
NAME OF SUBMITTER:	Michael Zarrabian, Reg. No. 39,886
Total Attachments: 9 source=ARC920120017US1_Assignment#page1.tif source=ARC920120017US1_Assignment#page2.tif source=ARC920120017US1_Assignment#page3.tif source=ARC920120017US1_Assignment#page4.tif source=ARC920120017US1_Assignment#page5.tif source=ARC920120017US1_Assignment#page6.tif source=ARC920120017US1_Assignment#page7.tif source=ARC920120017US1_Assignment#page8.tif source=ARC920120017US1_Assignment#page9.tif	

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: **EFFICIENT PARTITIONED JOINS IN A DATABASE WITH
COLUMN-MAJOR LAYOUT**

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: 13/537,745 (insert series code and serial number here if/when available)

Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned Inventor desires to grant to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

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]

Page 1 of 9

Assignment Form final 081908.doc

IBM DOCKET NUMBER: ARC920120017US1

Executed by Inventor 1 of 8

Signature: Stefan Arndt

Stefan Arndt

Date: 26.6.2012

Page 2 of 9

Assignment Form final 081908.doc

IBM DOCKET NUMBER: ARC920120017US1

Executed by Inventor 2 of 8

Signature: A. Gopi Krishna
Gopi K. Attaluri

Date: 27 June/12

Page 3 of 9

Assignment Form final 081908.doc

IBM DOCKET NUMBER: ARC920120017US1

Executed by Inventor 3 of 8

Signature:



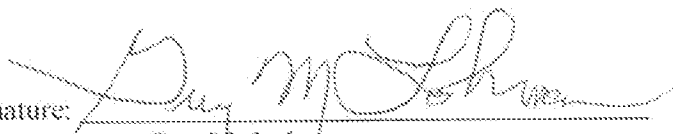
Ronald J. Barber

Date:

6-24-12

Executed by Inventor 4 of 8

Signature:


Guy M. Lohman

Date:

25 June 2012

IBM DOCKET NUMBER: ARC920120017US1

Executed by Inventor 5 of 8

Signature: _____

Lin Qiao

Date: _____

June 25, 2012

Executed by Inventor 6 of 8

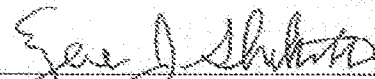
Signature: R. Vijayshankar Raman
Vijayshankar Raman

Date: June 25, 2012

IBM DOCKET NUMBER: ARC920120017US1

Executed by Inventor 7 of 8

Signature: _____


Eugene J. Shekita

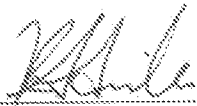
Date: _____

6/24/2012

Page 8 of 9

Assignment Form Serial 021908.doc

Executed by Inventor 8 of 8

Signature: 
Richard S. Sidle

Date: June 26, 2012