

# PATENT ASSIGNMENT

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT														
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT														
<b>CONVEYING PARTY DATA</b>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Leman Akoglu</td><td>12/08/2011</td></tr> <tr><td>Rohit M Khandekar</td><td>12/08/2011</td></tr> <tr><td>Vibhore Kumar</td><td>12/08/2011</td></tr> <tr><td>Srinivasan Parthasarathy</td><td>12/08/2011</td></tr> <tr><td>Deepak Rajan</td><td>12/08/2011</td></tr> <tr><td>Kun-Lung Wu</td><td>12/08/2011</td></tr> </tbody> </table>		Name	Execution Date	Leman Akoglu	12/08/2011	Rohit M Khandekar	12/08/2011	Vibhore Kumar	12/08/2011	Srinivasan Parthasarathy	12/08/2011	Deepak Rajan	12/08/2011	Kun-Lung Wu	12/08/2011
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<b>RECEIVING PARTY DATA</b>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;"><b>Name:</b></td><td>International Business Machines Corporation</td></tr> <tr><td><b>Street Address:</b></td><td>New Orchard Road</td></tr> <tr><td><b>City:</b></td><td>Armonk</td></tr> <tr><td><b>State/Country:</b></td><td>NEW YORK</td></tr> <tr><td><b>Postal Code:</b></td><td>10504</td></tr> </table>		<b>Name:</b>	International Business Machines Corporation	<b>Street Address:</b>	New Orchard Road	<b>City:</b>	Armonk	<b>State/Country:</b>	NEW YORK	<b>Postal Code:</b>	10504				
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<b>PROPERTY NUMBERS Total: 1</b>															
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<b>CORRESPONDENCE DATA</b>															
<p>Fax Number: (203)255-6570</p> <p>Phone: 2032556560</p> <p>Email: car@rml-law.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Michael J. Cooper</p> <p>Address Line 1: 1300 Post Road, Suite 205</p> <p>Address Line 2: Ryan, Mason &amp; Lewis, LLP</p> <p>Address Line 4: Fairfield, CONNECTICUT 06824</p>															
<b>ATTORNEY DOCKET NUMBER:</b>	YOR920110631US1														

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**PATENT**  
**REEL: 027359 FRAME: 0717**

NAME OF SUBMITTER:

Michael J. Cooper

**Total Attachments: 8**

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U.S. DEPARTMENT OF COMMERCE

Patent and 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):**

**Leman Akoglu, Rohit M. Khandekar, Vibhore Kumar, Srinivasan Parthasarathy, Deepak Rajan and Kun-Lung Wu**

Additional name(s) of conveying party(ies) attached?

Yes ☒ No**2. Name and address of receiving party(ies)**Name: **International Business Machines Corporation**

Internal Address:

Street Address: **New Orchard Road**City: **Armonk** State: **NY** ZIP: **10504**Additional name(s) & address(es) attached? ☐ Yes ☒ No**3. Nature of conveyance:**☒ Assignment ☐ Merger☐ Security Agreement ☐ Change of Name☐ Other

Execution Date: **December 8, 2011, December 8, 2011, December 8, 2011, December 8, 2011, December 8, 2011, December 8, 2011**

**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) **13/315,415, Filed December 9, 2011**

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address of party to whom correspondence concerning document should be mailed:**Name: **Michael J. Cooper**Internal Address: **Ryan, Mason & Lewis, LLP**Street Address: **1300 Post Road, Suite 205**City: **Fairfield** State: **CT** ZIP: **06824****6. Total number of applications and patents involved: 1****7. Total Fee (37 CFR 3.41)..... \$ 40.00**☐ Enclosed☒ Authorized to be charged to deposit account**8. Deposit account number 50-0510**

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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.*

**Michael J. Cooper**Reg. No. **57,749**


Signature

Date

**December 9, 2011**Total number of pages including cover sheet, attachments, and document: **8**

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YOR920110631US1

**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: **VERTEX-PROXIMITY QUERY PROCESSING**

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: \_\_\_\_\_.

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.

IBM DOCKET NUMBER: YOR920110631US1

Executed by Inventor 1 of 6

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Signature:  Date: 12/8/11  
Leman Akoglu

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Executed by Inventor 2 of 6

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Signature: Rohit M. Khandekar Date: 12/8/2011  
Rohit M. Khandekar

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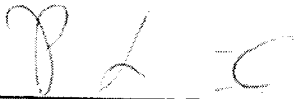
Executed by Inventor 3 of 6

Signature:  Date: 12/08/2011  
Vibhore Kumar

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Executed by Inventor 4 of 6

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Signature:  Date: 12/08/11  
Srinivasan Parthasarathy



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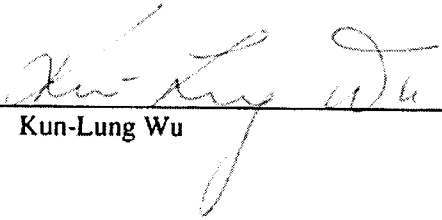
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Signature:  Date: 12/8/11  
Deepak Rajan

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Signature:  Date: 12/08/2011  
Kun-Lung Wu