

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>Swaminathan Balasubramanian</td> <td>06/07/2012</td> </tr> <tr> <td>Rick A. Hamilton II</td> <td>06/09/2012</td> </tr> <tr> <td>Brian M. O'Connell</td> <td>06/10/2012</td> </tr> <tr> <td>Keith R. Walker</td> <td>06/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	Swaminathan Balasubramanian	06/07/2012	Rick A. Hamilton II	06/09/2012	Brian M. O'Connell	06/10/2012	Keith R. Walker	06/07/2012
Name	Execution Date										
Swaminathan Balasubramanian	06/07/2012										
Rick A. Hamilton II	06/09/2012										
Brian M. O'Connell	06/10/2012										
Keith R. Walker	06/07/2012										
RECEIVING PARTY DATA											
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>13495253</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13495253						
Property Type	Number										
Application Number:	13495253										
CORRESPONDENCE DATA											
Fax Number:	(518)456-7004										
Phone:	(518) 456-7084										
Email:	kjones@kdiplaw.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:	Keohane & D'Alessandro PLLC										
Address Line 1:	1881 Western Avenue										
Address Line 2:	Suite 180										
Address Line 4:	Albany, NEW YORK 12203										
ATTORNEY DOCKET NUMBER:	END920120079US1										
NAME OF SUBMITTER:	Ronald A. D'Alessandro										

CH \$40.00 13495253

Total Attachments: 5

source=END920120079US1_signedAssignment#page1.tif

source=END920120079US1_signedAssignment#page2.tif

source=END920120079US1_signedAssignment#page3.tif

source=END920120079US1_signedAssignment#page4.tif

source=END920120079US1_signedAssignment#page5.tif

PATENT ASSIGNMENT FORM

For and in consideration of good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor acknowledges his/her prior and ongoing obligation to sell, assign, and transfer, and agrees to sell, assign, and transfer the entire world wide right, title and interest for the United States and all foreign countries, in and to any and all inventions and improvements conceived during and within the scope of his/her employment, and further acknowledges that he/she has sold, assigned, and transferred, and hereby sells, assigns, and transfers, unto:

INTERNATIONAL BUSINESS MACHINES CORPORATION
Armonk, New York 10504

a corporation of New York, and IBM desires to acquire all right, title, and interest, in and to the certain inventions (identified below), applications, and any United States and foreign patents to be obtained therefore relating to:

**INTEGRATED DEVELOPMENT ENVIRONMENT-BASED REPOSITORY SEARCHING IN A NETWORKED
COMPUTING ENVIRONMENT**

United States Patent

as set forth in United States Patent Application executed by each undersigned inventor on the date indicated by each inventor signature below, and further identified by **Attorney Docket Number END920120079US1**; executed concurrently herewith

for and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States and foreign patents and all rights of priority to be obtained therefore which may issue on any such application or for said invention therein disclosed, including any and all reissues or extensions thereof, to be held and enjoyed by IBM, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each undersigned inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to IBM, its successors and assigns, in accordance herewith;

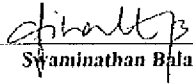
Each undersigned inventor warrants and covenants that he/she has the full and unencumbered right to sell and assign the interests hereby sold and assigned and that he/she has not executed and will not execute any document or instrument in conflict herewith;

Each undersigned inventor further covenants and agrees that he/she, upon the request and at the expense of IBM, will execute and deliver any papers, make all rightful oaths, testify in any legal proceeding relating to said inventions and improvements, communicate to IBM all facts known to the undersigned relating to such inventions and improvements and the history thereof; and perform all other lawful acts deemed necessary or desirable by IBM, and its legal representatives, to secure, maintain, and enforce patent protection for such inventions and improvements and for vesting title to such inventions and improvements in IBM, and in particular to perfect title to said above-identified certain inventions, and applications including divisions and continuations thereof, and any and all Letters Patent which may be granted therefore or thereon, including reissues, extensions, or counterparts;

Each undersigned inventor hereby grants IBM and the firm the power to insert in this Assignment any further identification 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.

Executed by Inventor 1 of 4

Signature:  Date: 6/7/12
Swaminathan Balasubramanian

Executed by Inventor 2 of 4

Signature: _____ Date: _____
Rick A. Hamilton II

Executed by Inventor 3 of 4

Signature: _____ Date: _____
Brian M. O'Connell

Executed by Inventor 4 of 4

Signature: _____ Date: _____
Keith R. Walker

PATENT
DOCKET NO.: END920120079US1

Executed by Inventor 1 of 4

Signature: _____ Date: _____
Swaminathan Balasubramanian

Executed by Inventor 2 of 4

Signature:  Date: June 9, 2012
Rick A. Hamilton II

Executed by Inventor 3 of 4

Signature: _____ Date: _____
Brian M. O'Connell

Executed by Inventor 4 of 4

Signature: _____ Date: _____
Keith R. Walker

Signature: _____ Date: _____
Swaminathan Balasubramanian

1 Executed by Inventor 2 of 4

Signature: _____ Date: _____
Rick A. Hamilton II

1 Executed by Inventor 3 of 4

Signature:  Date: 6/10/2012
Brian M. O'Connell

1 Executed by Inventor 4 of 4

Signature: _____ Date: _____
Keith R. Walker

Executed by Inventor 1 of 4

Signature: _____ Date: _____
Swaminathan Balasubramanian

Executed by Inventor 2 of 4

Signature: _____ Date: _____
Rick A. Hamilton II

Executed by Inventor 3 of 4

Signature: _____ Date: _____
Brian M. O'Connell

Executed by Inventor 4 of 4

Signature: Keith R. Walker Date: 6/7/12
Keith R. Walker