

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<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>Rema Ananthanarayanan</td> <td>01/24/2010</td> </tr> <tr> <td>Vinatha Chaturvedi</td> <td>01/31/2010</td> </tr> <tr> <td>Vijil E. Chenthamarakshan</td> <td>02/02/2010</td> </tr> <tr> <td>Prasad M. Deshpande</td> <td>01/29/2010</td> </tr> <tr> <td>Raghuram Krishnapuram</td> <td>01/29/2010</td> </tr> <tr> <td>Shajeer K. Mohammed</td> <td>02/01/2010</td> </tr> </tbody> </table>		Name	Execution Date	Rema Ananthanarayanan	01/24/2010	Vinatha Chaturvedi	01/31/2010	Vijil E. Chenthamarakshan	02/02/2010	Prasad M. Deshpande	01/29/2010	Raghuram Krishnapuram	01/29/2010	Shajeer K. Mohammed	02/01/2010
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RECEIVING PARTY DATA															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12698733</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12698733										
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Application Number:	12698733														
CORRESPONDENCE DATA															
<p>Fax Number: (412)741-9292</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 412-741-8400</p> <p>Email: uspto@ferencelaw.com</p> <p>Correspondent Name: Ference & Associates LLC</p> <p>Address Line 1: 409 Broad Street</p> <p>Address Line 4: Pittsburgh, PENNSYLVANIA 15143</p>															
ATTORNEY DOCKET NUMBER:	790.045														
NAME OF SUBMITTER:	Stanley D. Ference III														

CH \$40.00 12698733

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PATENT
REEL: 024284 FRAME: 0471

Total Attachments: 15

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ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries which are hereunto being assigned herein:

Title of the Invention: **MINING DEPENDENCIES FROM DISK IMAGES**

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: _____ (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 Page Follows}

Executed by Inventor 1 of 6

Signature: 
Renu Ananthakrishnan

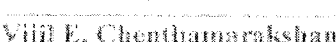
Date: 11/1/2015

Executed by Inventor 2 of 6

Signature: 
Vinatha Chaturvedi


Date: 11/1/2015

Executed by Inventor 3 of 6

Signature: 
Vijil E. Chenthamarakshan

Date: 11/1/2015

Executed by Inventor 4 of 6

Signature: 
Prasad M. Deshpande

Date: 11/1/2015

Executed by Inventor 5 of 6

Signature

Raghuram Krishnapurani

Date

Executed by Inventor 6 of 6

Signature

Shajeer K. Mohammed

Date

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: **MINING DEPENDENCIES FROM DISK IMAGES**

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[Inventor Signature Page Follows]

IBM DOCKET NUMBER: IN920090100US1
(770,045)

Executed by Inventor 1 of 6

Signature: _____
Renu Ananthanarayanan

Date: _____

Executed by Inventor 2 of 6

Signature: Vinatha Chaturvedi
Vinatha Chaturvedi

Date: Jan/31/10

Executed by Inventor 3 of 6

Signature: _____
Vijil E. Chenthamarakshan

Date: _____

Executed by Inventor 4 of 6

Signature: _____
Prasad M. Deshpande

Date: _____

IRVING DOCUMENT NO. 141-11 (N-2000-000001)
(790,045)

Executed by Inventor 5 of 6

Signature: _____
Raghuram Krishnapuram

Date: _____

Executed by Inventor 6 of 6

Signature: _____
Shajcer K. Mohammed

Date: _____

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: **MINING DEPENDENCIES FROM DISK IMAGES**

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[Inventor Signature Page Follows]

Executed by Inventor 1 of 6

Signature: _____ Date: _____
Rema Ananthanarayanan

Executed by Inventor 2 of 6

Signature: _____ Date: _____
Vinatha Chaturvedi

Executed by Inventor 3 of 6

Signature: EC. Vij _____ Date: 2nd Feb 2010
Vijil E. Chenthamarakshan

Executed by Inventor 4 of 6

Signature: _____ Date: _____
Prasad M. Deshpande

Executed by Inventor 5 of 6

Signature: _____ Date: _____
Raghuram Krishnapuram

Executed by Inventor 6 of 6

Signature: _____ Date: _____
Shajeer K. Mohammed

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: **MIXING DEPENDENCIES FROM DISK IMAGES**

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[Inventor Signature Page Follows]

IBM DOCKET NUMBER: IN920090109US1
(790.045)

Executed by Inventor 1 of 6

Signature: _____ Date: _____
Rema Ananthanarayanan

Executed by Inventor 2 of 6

Signature: _____ Date: _____
Vinatha Chaturvedi

Executed by Inventor 3 of 6

Signature: _____ Date: _____
Vijil E. Chenthamarakshan

Executed by Inventor 4 of 6

Signature:  _____ Date: 29 Feb 2010
Prasad M. Deshpande

Executed by Inventor 5 of 6

Signature: K. Raghuram
Raghuram Krishnapuram

Date: 29 Jan 2010

Executed by Inventor 6 of 6

Signature: _____
Shajeer K. Mohammed

Date: _____

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Signature: _____ Date: _____
Rema Ananthanarayanan

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Signature: _____ Date: _____
Vinatha Chaturvedi

Executed by Inventor 3 of 6

Signature: _____ Date: _____
Vijil E. Chenthamarakshan

Executed by Inventor 4 of 6

Signature: _____ Date: _____
Prasad M. Deshpande


INTERNATIONAL PATENT CLASSIFICATION
(790,045)

Executed by Inventor 5 of 6

Signature: _____
Ragburam Krishnapuram

Date: _____

Executed by Inventor 6 of 6

Signature: 
Shajeer K. Mohammed

Date: 1 Feb 2010