

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2636617

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>ASHISH CHAURASIA</td> <td>12/03/2013</td> </tr> <tr> <td>SANDEEP R. PATIL</td> <td>12/03/2013</td> </tr> <tr> <td>PRASENJIT SARKAR</td> <td>12/02/2013</td> </tr> <tr> <td>RIYAZAHAMAD M. SHIRAGUPPI</td> <td>12/03/2013</td> </tr> </tbody> </table>		Name	Execution Date	ASHISH CHAURASIA	12/03/2013	SANDEEP R. PATIL	12/03/2013	PRASENJIT SARKAR	12/02/2013	RIYAZAHAMAD M. SHIRAGUPPI	12/03/2013
Name	Execution Date										
ASHISH CHAURASIA	12/03/2013										
SANDEEP R. PATIL	12/03/2013										
PRASENJIT SARKAR	12/02/2013										
RIYAZAHAMAD M. SHIRAGUPPI	12/03/2013										
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>14096556</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14096556						
Property Type	Number										
Application Number:	14096556										
CORRESPONDENCE DATA											
Fax Number:	(607)429-4119										
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	IBM CORP- ENDICOTT DRAFTING CENTER										
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Address Line 2:	L2PA/J2C										
Address Line 4:	SAN JOSE, CALIFORNIA 95120										
ATTORNEY DOCKET NUMBER:	IN920130166US1										
NAME OF SUBMITTER:	JOHN W. HAYES										

Signature:	/John W. Hayes/
Date:	12/04/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 4</b> source=IN920130166US1_ExecutedAssignmentDeclaration#page1.tif source=IN920130166US1_ExecutedAssignmentDeclaration#page2.tif source=IN920130166US1_ExecutedAssignmentDeclaration#page3.tif source=IN920130166US1_ExecutedAssignmentDeclaration#page4.tif	

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN  
APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Invention: PERFORMANCE IMPROVEMENTS FOR A THIN PROVISIONING  
DEVICE

As a below named and undersigned inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

United States application or PCT international application number .....  
filed on .....

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the  
application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information  
known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, I have made certain inventions, improvements, and discoveries (herein referred to as the  
"Invention") disclosed in the above-identified patent application and further identified by the IBM Docket  
Number provided above in the header of this document:

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 I desire to grant to  
IBM, my 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, I ("ASSIGNOR") hereby sell or have sold, assign or have assigned, and otherwise transfer  
or have transferred to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, my  
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, I hereby authorize and request 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, my 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 me had this Assignment not been made; and  
I agree 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.

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to IBM and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application 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.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: Ashish Chaurasia

Signature:  Date: 3<sup>rd</sup> Dec 2013

(2) Legal Name of Inventor: Snadeep R. Patil

Signature:  Date: 3<sup>rd</sup> Dec 2013

(3) Legal Name of Inventor: Prasenjit Sarkar

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(4) Legal Name of Inventor: Riyazahamad M. Shitguppi

Signature:  Date: 3<sup>rd</sup> Dec 2013

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

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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 I desire to grant to IBM, my 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, I ("ASSIGNOR") hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, my 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, I hereby authorize and request 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, my 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 me had this Assignment not been made; and I agree 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.

IBM DOCKET NUMBER: IN920130166US1

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to IBM and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application 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.

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(1) Legal Name of Inventor: Ashish Chaurasia

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(2) Legal Name of Inventor: Sandeep R. Patil

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(3) Legal Name of Inventor: Prasenjit Sarkar

Signature: Prasenjit Sarkar Date: 12/2/13

(4) Legal Name of Inventor: Riyazahamad M. Shiraguppi

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]