

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MANJUNATH JAGANNATHA	10/27/2015
KIRAN MV KUMAR	10/27/2015
RAVI SHANKAR PANEM	10/27/2015
SRIDHAR SURAMPUDI	10/27/2015
<b>RECEIVING PARTY DATA</b>	
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<b>City:</b>	HOPKINTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01748
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14924636
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<b>NAME OF SUBMITTER:</b>	GEOFFREY T. STANIFORD
<b>SIGNATURE:</b>	/GEOFFREY T. STANIFORD/
<b>DATE SIGNED:</b>	10/27/2015
<b>Total Attachments: 6</b>	
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**PATENT**

**REEL: 036896 FRAME: 0878**

## ASSIGNMENT

WHEREAS, we, Manjunath Jagannatha, Kiran Mv Kumar, Ravi Shankar Panem and Sri dhar Surampudi have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled CROSS-PLATFORM INSTANT GRANULAR RECOVERY FOR VIRTUAL MACHINE BACKUPS (Application), the specification of which:

☒ is being executed on even date herewith and is about to be filed in the United States Patent Office;

☐ was filed on \_\_\_\_\_ as U.S. Application No. \_\_\_\_\_;

☐ was patented under U.S. Patent No. \_\_\_\_\_ on \_\_\_\_\_.

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including

the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

**AND**, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

**AND**, we hereby authorize our attorneys, EMC Corporation, to insert here in parentheses ( ) the application number and filing date of said Application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

**IN TESTIMONY WHEREOF**, we have hereunto set our hands and affixed our seals as set forth below:

Date:

27 OCT 2015

D. J. Manjunath

Inventor's Signature

Print full name of first inventor:

Manjunath Jagannatha

Residence:

#1050, 1 Block, 1 Stage, Nagarabhatti

Manasanagara, Bangalore 560072

India

Citizenship:

India

Mailing Address:

Same as above

I Kumar Srikanta (name) whose residential address is  
#119, 1B Block, 20B Main, Rajaji Nagar, Bangalore-560010, India was personally  
present and did see Manjunath Jagannatha (name of person signing the assignment) who is personally  
known to me, execute the above assignment.

Kumar

(signature of first witness)

Signed at Bangalore (location of witness signature)

on this day 27 OCTOBER of 2015 (date of signature)

I A. Pradeep (name) whose residential address is  
#5, 5th Cross Road, Malleshwaram-56003 was personally  
present and did see Manjunath Jagannatha (name of person signing the assignment) who is personally  
known to me, execute the above assignment.

A. Pradeep

(signature of second witness)

Signed at Bangalore (location of witness signature)

on this day 27 OCTOBER of 2015 (date of signature)

Date: 27 OCT 2015

[Signature]

Inventor's Signature

Print full name of 2nd inventor:

Kiran Mv Kumar

Residence:

No. 22, 16<sup>th</sup> Main, Bob Colony

JP Nagar 7<sup>th</sup> Phase

Bangalore, Karnataka, 560078

India

Citizenship:

India

Mailing Address:

Same as above

I, Kunwar Srikanta (name) whose residential address is #119, T.R. Block, 20 A Main, Rajajinagar, Bangalore 560010, India was personally present and did see Kiran Mv Kumar (name of person signing the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at Bangalore (location of witness signature)

on this day 27 OCTOBER of 2015 (date of signature)

I, A. PRADDEEP (name) whose residential address is #55<sup>th</sup> Cross Road, Malleshwaram, Bangalore - 56003 was personally present and did see Kiran Mv Kumar (name of person signing the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at Bangalore (location of witness signature)

on this day 27 OCTOBER of 2015 (date of signature)

Date: 27 OCT 2015

Ravi Shankar Panem  
Inventor's Signature

Print full name of third inventor:

Ravi Shankar Panem

Residence:

#404, Ram Laxmireddy Nilaya  
Munnekalota, Bangalore 560037

India

Citizenship:

India

Mailing Address:

Same as above

I Kumar Srikanth (name) whose residential address is  
#119, T.E. Block, 20 B Main, Rajarajagopal, Bangalore - 56010, India was personally  
present and did see Ravi Shankar Panem (name of person signing the assignment) who is personally  
known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at Bangalore (location of witness signature)

on this day 27 OCTOBER of 2015 (date of signature)

I A. Pradeep (name) whose residential address is  
#55, 6th Cross Road, Mallaswaram, Bangalore - 560023 was personally  
present and did see Ravi Shankar Panem (name of person signing the assignment) who is personally  
known to me, execute the above assignment.

A. Pradeep (signature of second witness)

Signed at Bangalore (location of witness signature)

on this day 27 OCTOBER of 2015 (date of signature)

Date:

27 OCT 2015



Inventor's Signature

Print full name of forth inventor:

**Sridhar Surampudi**

Residence:

KR Puram Marathahalli Ring Road, Mahadevapura  
Doddanekundi Village, Hobli, Bengaluru  
Karnataka, 560048  
India

Citizenship:

India

Mailing Address:

Same as above

I Kumar Srikanta (name) whose residential address is #119, T.R. Block, 20B Main, Rajajinagar, Bangalore, 560010, India was personally present and did see Sridhar Surampudi (name of person signing the assignment) who is personally known to me, execute the above assignment.

Kumar (signature of first witness)

Signed at Bangalore (location of witness signature)

on this day 27 OCTOBER of 2015 (date of signature)

I A. Pradeep (name) whose residential address is #15, 5th Cross Road, Malleshwaram, Bangalore - 56003 was personally present and did see Sridhar Surampudi (name of person signing the assignment) who is personally known to me, execute the above assignment.

A. Pradeep (signature of second witness)

Signed at Bangalore (location of witness signature)

on this day 27 OCTOBER of 2015 (date of signature)