

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4667340

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MV KIRAN	10/30/2017
MANJUNATH JAGANNATHA	10/30/2017
RAVI SHANKAR PANEM	10/30/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EMC IP HOLDING COMPANY LLC
<b>Street Address:</b>	176 SOUTH STREET
<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>	15727260
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(714)557-3347
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	(714) 557-3800
<b>Email:</b>	tu_nguyen@bstz.com
<b>Correspondent Name:</b>	BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP
<b>Address Line 1:</b>	1279 OAKMEAD PARKWAY
<b>Address Line 4:</b>	SUNNYVALE, CALIFORNIA 94085-4040
<b>ATTORNEY DOCKET NUMBER:</b>	6368P249
<b>NAME OF SUBMITTER:</b>	ZI WANG, REG. NO. L0876
<b>SIGNATURE:</b>	/Zi Wang/
<b>DATE SIGNED:</b>	10/31/2017
<b>Total Attachments: 5</b>	
source=EMC-17-0050 6368P249 Assignment Signed#page1.tif	
source=EMC-17-0050 6368P249 Assignment Signed#page2.tif	
source=EMC-17-0050 6368P249 Assignment Signed#page3.tif	
source=EMC-17-0050 6368P249 Assignment Signed#page4.tif	



ASSIGNMENT

WHEREAS, we, Mv Kiran, Manjunath Jagannatha, and Ravi Shankar Panem, 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 SECURITY PROTECTION 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 October 6, 2017 as U.S. Application No. 15/727,260;
- was patented under U.S. Patent No. \_\_\_\_\_ on \_\_\_\_\_.

WHEREAS, EMC IP Holding Company LLC (hereinafter "ASSIGNEE"), a limited liability company 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 IP Holding Company LLC, to insert here in parentheses (15/727,260 filed 10-6-2017) 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: 30/10/17 (DD/MM/YY)

M.V. Kiran  
Inventor's Signature

Print full name of first inventor:

**Mv Kiran**

Residence:

No: 22, 16<sup>th</sup> Main, BOB Colony, JP Nagar, 7<sup>th</sup> Phase,  
Bangalore, IN 560078

Citizenship:

India

Mailing Address:

Same as above

I PRAVEEN DEPAKAVALA (name) whose residential address is  
MAHADEVAPURA, BENGALURU was personally  
present and did see MV KIRAN (name of person signing the assignment) who is personally  
known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at BENGALURU (location of witness signature)

on this day 30<sup>th</sup> October of 2017. (date of signature)

I KUMARI PRIYANKA (name) whose residential address is  
MAHADEVAPURA, BENGALURU was personally  
present and did see MV KIRAN (name of person signing the assignment) who is personally  
known to me, execute the above assignment.

Priyanka (signature of second witness)

Signed at BENGALURU (location of witness signature)

on this day 30<sup>th</sup> October of 2017. (date of signature)

Date: 30/10/2017 (DD/MM/YY)

D J. Manjunath  
Inventor's Signature

Print full name of first inventor:

**Manjunath Jagannatha**

Residence:

#1050, 1<sup>st</sup> Stage, 1<sup>st</sup> Block, Manasanagar, Nagarbhavi,  
Bangalore, IN 560072

Citizenship:

India

Mailing Address:

Same as above

I PRAVEEN PEPAKAYALA (name) whose residential address is  
MAHADEVAPURA, BENGALURU was personally  
present and did see MANJUNATH (name of person signing the assignment) who is personally  
known to me, execute the above assignment.

 (signature of first witness)

Signed at BENGALURU (location of witness signature)

on this day 30<sup>th</sup> October of 2017. (date of signature)

I KUMARI PRIYANKA (name) whose residential address is  
MAHADEVAPURA, BENGALURU was personally  
present and did see MANJUNATH (name of person signing the assignment) who is personally  
known to me, execute the above assignment.

 (signature of second witness)

Signed at BENGALURU (location of witness signature)

on this day 30<sup>th</sup> October of 2017. (date of signature)

Date: 30/10/2017 (00/11/17)

Ravi Shankar Panem  
Inventor's Signature

Print full name of first inventor: **Ravi Shankar Panem**  
Residence: #337, S2 1<sup>st</sup> B Block, AECS Layout, Bangalore, 560037  
Citizenship: India  
Mailing Address: Same as above

I PRAVEEN PEDAKAYALA (name) whose residential address is MAHADEVAPURA, BENGALURU was personally present and did see RAVI SHANKAR (name of person signing the assignment) who is personally known to me, execute the above assignment.

Praaveen (signature of first witness)

Signed at Bengaluru (location of witness signature)

on this day 30<sup>th</sup> october of 2017. (date of signature)

I KUMARI PRIYANKA (name) whose residential address is MAHADEVAPURA, BENGALURU was personally present and did see RAVI SHANKAR (name of person signing the assignment) who is personally known to me, execute the above assignment.

Priyanka (signature of second witness)

Signed at Bengaluru (location of witness signature)

on this day 30<sup>th</sup> october of 2017. (date of signature)