

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RAVI RANGAPURAM	04/28/2017
PAVAN KUMAR DATTATREYA ATI	04/28/2017
SRIDHAR SURAMPUDI	04/28/2017
RECEIVING PARTY DATA	
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City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15581163
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SIGNATURE:	/GEOFFREY T. STANIFORD/
DATE SIGNED:	04/28/2017
Total Attachments: 5	
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ASSIGNMENT

WHEREAS, we, Ravi Rangapuram, Pavan Kumar Dattatreya Ati and Sridhar 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 **IDENTIFYING CHANGED FILES IN INCREMENTAL BLOCK-BASED BACKUPS TO BACKUP INDEXES**, 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 IP Holding Company LLC (hereinafter "ASSIGNEE"), a limited liability company organized and existing under the laws of the State of Delaware 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.

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

Date: 28-Apr-2017

R. Ravi Kishan Y
Inventor's Signature

Print full name of first inventor:

Ravi Rangapuram

Residence:

#104 B Block, Sai Krupa Elite, Doddanakundi
Bangalore, Karnataka 560037
India

Citizenship:

India

Mailing Address:

Same as above

I Manjunath DJ (name) whose residential address is #105B, I Block, I Stage Nagas Bhavi, Bangalore-560072 was personally present and did see Ravi Rangapuram (name of person signing the assignment) who is personally known to me, execute the above assignment.

D.J. Manjunath (signature of first witness)

Signed at Bangalore (location of witness signature)

on this day 28/04 of 2017 (date of signature)

I P. Ravi Shankar (name) whose residential address is #404, Ram Lakshmi Reddy Nilaya, Munne Kolala, Bangalore-560037 was personally present and did see Ravi Rangapuram (name of person signing the assignment) who is personally known to me, execute the above assignment.

P. Ravi Shankar (signature of second witness)

Signed at Bangalore (location of witness signature)

on this day 28/04 of 2017 (date of signature)

Date: 28-4-2017

Pavan

Inventor's Signature

Print full name of second inventor:

Pavan Kumar Dattatreya Atti

Residence:

Flat #103, Tribhuvan Paradise
Kaverappa Layout, Panathur Ext., Kaadubisanahalli
Bangalore, Karnataka 500103

India

Citizenship:

India

Mailing Address:

Same as above

I Manjunath D.J (name) whose residential address is #105D, P Block T Stage Nagarbhavi Bangalore - 560072 was personally present and did see Pavan Kumar Dattatreya Atti (name of person signing the assignment) who is personally known to me, execute the above assignment.

D.J. Manjunath (signature of first witness)

Signed at Bangalore (location of witness signature)

on this day 28/04 of 2017 (date of signature)

I P. Ravi Shankar (name) whose residential address is #404, Ram Lakshmi Reddy Nilaya, Murugeshwara, Bangalore - 560037 was personally present and did see Pavan Kumar Dattatreya Atti (name of person signing the assignment) who is personally known to me, execute the above assignment.

P. Ravi Shankar (signature of second witness)

Signed at Bangalore (location of witness signature)

on this day 28/04 of 2017 (date of signature)

Date:

28-4-2017

Sridhar

Inventor's Signature

Print full name of third inventor:

Sridhar Surampudi

Residence:

Flat #1, 1st Floor, Sri Krishna Residency, Road No. 1
Srinagar Colony, Near Morampudi Junction
Rajahmundry, Andhra Pradesh 533103
India

Citizenship:

India

Mailing Address:

Same as above

I Manjunath DJ (name) whose residential address is #1050, I Block, I Stage Nagar Bham, Bangalore - 560072 was personally present and did see Sridhar Surampudi (name of person signing the assignment) who is personally known to me, execute the above assignment.

D.J. Manjunath (signature of first witness)

Signed at Bangalore (location of witness signature)

on this day 28/04 of 2017. (date of signature)

I P. Ravi Shankar (name) whose residential address is #409, RAHLAXHI REDDY NILAYA, KUNNEKALU, BANGALORE, 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.

P. Ravi Shankar (signature of second witness)

Signed at Bangalore (location of witness signature)

on this day 28/4 of 2017. (date of signature)