

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5031218

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ASIF KHAN	06/25/2018
SHELESH CHOPRA	06/25/2018
MATTHEW DICKEY BUCHMAN	06/25/2018
BHARAT BHUSHAN	06/25/2018
KRISHNENDU BAGCHI	06/25/2018
RECEIVING PARTY DATA	
Name:	EMC IP HOLDING COMPANY LLC
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16022604
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Email:	paula.hardilek@chamberlainlaw.com
Correspondent Name:	PAULA HARDILEK
Address Line 1:	1200 SMITH ST., 14TH FLOOR
Address Line 4:	HOUSTON, TEXAS 77002
ATTORNEY DOCKET NUMBER:	170360-021800US
NAME OF SUBMITTER:	ALY Z. DOSSA
SIGNATURE:	/Aly Z. Dossa/
DATE SIGNED:	06/29/2018
Total Attachments: 7	
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ASSIGNMENT

WHEREAS, we, Asif Khan, Shelesh Chopra, Matthew Dickey Buchman, Bharat Bhushan, and Krishnendu Bagchi, 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 SYSTEM AND METHOD FOR BACKUP TOPOLOGY MAP, 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 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.

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

Date: 25th June 2018

M. Asif Khan
Inventor's Signature

Print full name of first inventor: **Asif KHAN**
Residence: Bangalore, India
Citizenship: India
Mailing Address: c/o EMC IP Holding Company LLC
176 South Street
Hopkinton, MA 01748

I Mahesh Paddy A.V. (name) whose residential address is
253, T. Dasarahalli, Bangalore - 57
was personally present and did see Asif Khan (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Bhesh (signature of first witness)

Signed at Bangalore (location of witness signature)

on this day 25th June of 2018. (date of signature)

I SWAROOP SHANKAR D.H. (name) whose residential address is
FLAT. 309, SUMUKHA OPAL APARTMENT, J. P. Nagar 5th phase, Bangalore 560078
was personally present and did see ASIF KHAN (name of person signing
the assignment) who is personally known to me, execute the above assignment.

SWAROOP SHANKAR D.H. (signature of second witness)

Signed at BANGALORE (location of witness signature)

on this day 25th JUNE of 2018. (date of signature)

Date: June 25, 2018

[Signature]
Inventor's Signature

Print full name of second inventor: **Shelesh CHOPRA**
Residence: Bangalore, India
Citizenship: India
Mailing Address: c/o EMC IP Holding Company LLC
176 South Street
Hopkinton, MA 01748

I Nalash Reddy A.V. (name) whose residential address is
252, T. Dasanahalli, Bangalore - 56
was personally present and did see Shelesh Chopra (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 25th June of 2018. (date of signature)

I GNAROOOP SHANKAR D.H (name) whose residential address is
FLAT 319, SUMUKHA OPAL APARTMENT, J.P. Nagar 5th phase, Bangalore 560078
was personally present and did see SHELESH CHOPRA (name of person signing
the assignment) who is personally known to me, execute the above assignment.

gnarooop shankar DH (signature of second witness)

Signed at BANGALORE (location of witness signature)

on this day 25th JUNE of 2018. (date of signature)

Date: June 25th, 2018


Inventor's Signature

Print full name of third inventor: **Matthew Dickey BUCHMAN**
Residence: Seattle, WA, US
Citizenship: United States
Mailing Address: c/o EMC IP Holding Company LLC
176 South Street
Hopkinton, MA 01748

I Mahesh Reddy A.V. (name) whose residential address is
253, T. Desaihalli, Bangalore-560057
was personally present and did see Matthew D. Buchman (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Mahesh (signature of first witness)

Signed at Bangalore (location of witness signature)

on this day 25th June of 2018. (date of signature)

I SHAROP SHANKAR, D.H (name) whose residential address is
FLAT 319, SUMUKHA OPAL APARTMENT, J.P. Nagar 5th phase, Bangalore - 78
was personally present and did see Matthew D. BUCHMAN (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Sharop Shankar D.H (signature of second witness)

Signed at BANGALORE (location of witness signature)

on this day 25th JUNE of 2018. (date of signature)

Date: 25th June 2018

Bharat Bhushan
Inventor's Signature

Print full name of fourth inventor: **Bharat BHUSHAN**
Residence: Bangalore, India
Citizenship: India
Mailing Address: c/o EMC IP Holding Company LLC
176 South Street
Hopkinton, MA 01748

I Mahesh Reddy A.V. (name) whose residential address is
253, T. Doddahalli, Bangalore-56
was personally present and did see Bharat Bhushan (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Mahesh Reddy (signature of first witness)

Signed at Bangalore (location of witness signature)

on this day 25th June of 20 18. (date of signature)

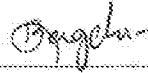
I SUAROOP SHANKAR D.H (name) whose residential address is
FLAT-3A, SUMUKHA DIAL APARTMENT, J.P.Nagar 5th phase, BANGALORE-560078
was personally present and did see Bharat Bhushan (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Suaroop Shankar DH (signature of second witness)

Signed at BANGALORE (location of witness signature)

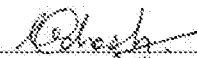
on this day 25th June of 20 18. (date of signature)

Date: 25th June 2018


Inventor's Signature

Print full name of fifth inventor: **Krishnendu BAGCHI**
Residence: Bangalore, India
Citizenship: India
Mailing Address: c/o EMC IP Holding Company LLC
176 South Street
Hopkinton, MA 01748

I Mahesh Reddy A.V. (name) whose residential address is
253, T. Devachalli, Bangalore - 57
was personally present and did see Krishnendu Bagchi (name of person signing
the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at Bangalore (location of witness signature)

on this day 25th June of 20 18. (date of signature)

I SURROOP SHANKAR D.H (name) whose residential address is
FLAT 219, SUMUKHA OPAL APARTMENT, S.P. Nagar 5th phase, BAN
was personally present and did see Krishnendu Bagchi (name of person signing
the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at BANGALORE (location of witness signature)

on this day 25th JUNE of 20 18. (date of signature)