

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ALEX MINGHUI ZHANG	12/26/2016
BRIAN TIANFANG XIONG	12/26/2016
YUANYANG WU	12/26/2016
YIFENG LU	12/26/2016
SHERRY HONGRU XU	12/26/2016
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:	15389775
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>	
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NAME OF SUBMITTER:	AMANDA BERNIER
SIGNATURE:	/Amanda Bernier/
DATE SIGNED:	12/28/2016
Total Attachments: 7	
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ASSIGNMENT

WHEREAS, we, Alex Minghui Zhang, Brian Tianfang Xiong, Yuanyang Wu, Yifeng Lu and Sherry Hongru Xu 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 *METHOD AND DEVICE FOR RECOVERING DATA REPLICATION BETWEEN STORAGE DEVICES* (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 December 23, 2016 as U.S. Application No. 15/389,775;
- ☐ 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 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;

AND, we hereby authorize our attorneys, EMC IP HOLDING COMPANY LLC, to insert here in parenthesis (15/389,775 filed December 23, 2016) 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: 2016.12.26

Alex Minghui Zhang

Inventor's Signature

Print full name of inventor

Alex Minghui Zhang

Residence

Room 602, No. 19, 567 Nong, Heze Road

Pudong

200129 Shanghai, CN

Citizenship

CN

Mailing Address

Same as above

I, Luna Kuang (name of first witness), whose residential address is Room 601, No. 45, Huansha Fourth Village, East Guoshun Rd., Yangpu, Shanghai was personally present and did see Alex Minghui Zhang (name of person signing the assignment), who is personally known to me, execute the above assignment.

Luna Kuang (Signature of first witness)
Signed at 3F, Building 1, No. 234 Songhu Rd., Yangpu, Shanghai (location of witness signature)
on this day, Dec. 26, 2016 (date of signature).

I, Henry Wang (name of second witness), whose residential address is Caobao Rd. 1508, Shanghai, P.R.C. was personally present and did see Alex Minghui Zhang (name of person signing the assignment), who is personally known to me, execute the above assignment.

Henry Wang (Signature of second witness)
Signed at 3F, Building 1, No. 234 Songhu Rd., Shanghai, P.R.C. (location of witness signature)
on this day, 2016.12.26, 2016 (date of signature).

Date: 2016/12/26

Brian Tianfang Xiong
Inventor's Signature

Print full name of inventor

Brian Tianfang Xiong

Residence

3-6A, No. 977, Hong Qiao Road

Shanghai Changning District

200051 Shanghai, CN

Citizenship

CN

Mailing Address

Same as above

I, Luna Kuang (name of first witness), whose residential address is
Room 601, No. 45, Huansha Fourth Village, East Guoshun Rd., Yangpu, Shanghai
was personally present and did see Brian Tianfang Xiong (name of person signing the
assignment), who is personally known to me, execute the above assignment.

Luna Kuang (Signature of first witness)
Signed at 3F, Building 1, No. 234 Songhu Rd., Yangpu, Shanghai (location of witness signature)
on this day, Dec. 26, 2016 (date of signature).

I, Henry Wang (name of second witness), whose residential address is
Cadiao Rd. 1508 Shanghai P.R.C.
was personally present and did see Brian Tianfang Xiong (name of person signing the
assignment), who is personally known to me, execute the above assignment.

Henry Wang (Signature of second witness)
Signed at 3F, Building 1, No. 234 Songhu Rd., Shanghai P.R.C. (location of witness signature)
on this day, 2016.12.26, 2016 (date of signature).

Date: 12/26/2016.

Yuanyang Wu.
Inventor's Signature

Print full name of inventor

Yuanyang Wu

Residence

Room 1502, Building 18, 866 Guangling Si Road

Hongkou District

200434 Shanghai, CN

Citizenship

CN

Mailing Address

Same as above

I, Shang Qiu (name of first witness), whose residential address is
Room 201, #1445, Yu Shan Road, Pu Dong District, Shanghai, China
was personally present and did see Yuanyang Wu (name of person signing the assignment), who
is personally known to me, execute the above assignment.

Shang Qiu (Signature of first witness)
Signed at Floor 2, #252 Songhu Road, Yangpu District (location of witness signature)
on this day, 12/26, 2016 (date of signature).

I, Mark Qian (name of second witness), whose residential address is
Room 401, Lane 518, Yierbajimandong Road, Shanghai, China
was personally present and did see Yuanyang Wu (name of person signing the assignment), who
is personally known to me, execute the above assignment.

Mark Qian (Signature of second witness)
Signed at Floor 2, #252 Songhu Road, Yangpu District (location of witness signature)
on this day, 12/26, 2016 (date of signature).

Date: 2016.12.26

Yifeng Lu
Inventor's Signature

Print full name of inventor

Yifeng Lu

Residence

Huanghua Road 577#, 8-602 Minhang District
201103 Shanghai, CN

Citizenship

CN

Mailing Address

Same as above

I, Luna Kuang (name of first witness), whose residential address is
Room 601, No. 45, Huangsha Fourth Village, East Guoshun Rd., Yangpu, Shanghai
was personally present and did see Yifeng Lu (name of person signing the assignment), who is
personally known to me, execute the above assignment.

Luna Kuang (Signature of first witness)
Signed at 3F, Building 1, No. 234 Songhu Rd., Yangpu, Shanghai (location of witness signature)
on this day, Dec. 26, 20 16 (date of signature).

I, Henry Wang (name of second witness), whose residential address is
Cadiao Rd. 1508, Shanghai, P.R.C.
was personally present and did see Yifeng Lu (name of person signing the assignment), who is
personally known to me, execute the above assignment.

Henry Wang (Signature of second witness)
Signed at 3F, Building 1, No. 234 Songhu Rd., Shanghai, P.R.C. (location of witness signature)
on this day, 2016.12.26, 20 16 (date of signature).

Date: 12/26/2016

Xu Hongru

Inventor's Signature

Print full name of inventor

Sherry Hongru Xu

Residence

Room 401, Unit 24, No. 410 Shangpu Road

Pudong New District

200124 Shanghai, CN

Citizenship

CN

Mailing Address

Same as above

I, Xu Hui (name of first witness), whose residential address is

South Zhongshan Road #398, Shanghai

was personally present and did see Sherry Hongru Xu (name of person signing the assignment), who is personally known to me, execute the above assignment.

Xu Hui (Signature of first witness)

Signed at Songhu Road #234, Shanghai (location of witness signature)

on this day, 12/26, 2016 (date of signature).

I, Li Menglin (name of second witness), whose residential address is

Hexia Road #115, Shanghai

was personally present and did see Sherry Hongru Xu (name of person signing the assignment), who is personally known to me, execute the above assignment.

Li Menglin (signature of second witness)

Signed at Songhu Road #234, Shanghai (location of witness signature)

on this day, 12/26, 2016 (date of signature).