

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LIAM LI	09/26/2017
XINLEI XU	09/26/2017
JIAN GAO	09/27/2017
LIFENG YANG	09/26/2017
CHANGYU FENG	09/26/2017
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:	15712483
CORRESPONDENCE DATA	
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<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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ATTORNEY DOCKET NUMBER:	EMC-16-0490.02
NAME OF SUBMITTER:	AMANDA M. BERNIER
SIGNATURE:	/Amanda M. Bernier/
DATE SIGNED:	10/18/2017
Total Attachments: 7	
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ASSIGNMENT

WHEREAS, we, Liam Li, Xinlei Xu, Jian Gao, Lifeng Yang and Changyu Feng, 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 ***FLUSHING PAGES FROM SOLID-STATE STORAGE DEVICE*** (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 September 22, 2017 as U.S. Application No. 15/712,483;
- 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;

AND, we hereby authorize our attorneys, EMC IP Holding Company LLC, to insert here in parenthesis (15/712,483 filed September 22, 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: 9/26/2017

Liam Li
Inventor's Signature

Full Name: **Liam Li**
Residence: Longhuiyuan 1-3-401, Huilongguan
Beijing, CN
Citizenship: CN
Mailing Address: Same as above

I, Liu Yousheng (name of first witness), whose residential address is 7/F Block D, Tsinghua Science Park Haidian Dist, Beijing PRC was personally present and did see Liam Li (name of person signing the assignment), who is personally known to me, execute the above assignment.

Liu Yousheng (signature of first witness)
Signed at Tsinghua Science Park (location of witness signature)
on this day, 9/26/2017, 20__ (date of signature).

I, Ruitong Jia (name of second witness), whose residential address is 7/F Block D, Tsinghua Science Park Haidian Dist, Beijing PRC was personally present and did see Liam Li (name of person signing the assignment), who is personally known to me, execute the above assignment.

Ruitong Jia (signature of second witness)
Signed at the same as above (location of witness signature)
on this day, 9/26/2017, 20__ (date of signature).

Date: 2017. 9. 26

Xinlei Xu
Inventor's Signature

Full Name: **Xinlei Xu**
Residence: 6-6-602,tiantongyuan Zhong Yuan
Beijing, CN 100010
Citizenship: CN
Mailing Address: Same as above


I, Liu Yousheng (name of first witness), whose residential address is 7/F, Block D, Tsinghua Science Park, Haidian Dist, Beijing, PRC was personally present and did see Xinlei Xu (name of person signing the assignment), who is personally known to me, execute the above assignment.

Liu Yousheng (signature of first witness)
Signed at Tsinghua Science Park (location of witness signature)
on this day, 9/26, 20 17 (date of signature).

I, Ruiyong Jia (name of second witness), whose residential address is 2F Block D, Tsinghua Science Park, Haidian Dist, Beijing PRC was personally present and did see Xinlei Xu (name of person signing the assignment), who is personally known to me, execute the above assignment.

Ruiyong Jia (signature of second witness)
Signed at the same as above (location of witness signature)
on this day, 9/26, 20 17 (date of signature).

Date: 2017.9.27



Inventor's Signature

Full Name: **Jian Gao**
Residence: 8/F, Block D, Tsinghua Science Park
NO.1 Zhongguancun East Road
Beijing, CN 100084
Citizenship: CN
Mailing Address: Same as above

I, Lin Yousheng (name of first witness), whose residential address is 717 Block D, Tsinghua Science Park, Haidian Dist., Beijing, P.R.C. was personally present and did see Jian Gao (name of person signing the assignment), who is personally known to me, execute the above assignment.

Lin Yousheng (signature of first witness)
Signed at Tsinghua Science Park (location of witness signature)
on this day, 9/26, 2017 (date of signature).

I, Ruiyang Jia (name of second witness), whose residential address is 7F, Block D, Tsinghua Science Park, Haidian Dist, Beijing P.R.C. was personally present and did see Jian Gao (name of person signing the assignment), who is personally known to me, execute the above assignment.

Ruiyang Jia (signature of second witness)
Signed at the same as above (location of witness signature)
on this day, 9/26, 2017 (date of signature).

Date: 2017 9.26

Lifeng Yang
Inventor's Signature

Full Name: **Lifeng Yang**
Residence: 10-3-50A, Xingfu-jiayuan, Dongcheng Dist
Beijing, CN 100062
Citizenship: CN
Mailing Address: Same as above

I, Lin Youshang (name of first witness), whose residential address is
7/F, Block D, Tsinghua Science Park Haidian Dist, Beijing PRC
was personally present and did see Lifeng Yang (name of person signing the assignment), who is
personally known to me, execute the above assignment.

Lin Youshang (signature of first witness)
Signed at Tsinghua Science Park (location of witness signature)
on this day, 9/26, 20 17 (date of signature).

I, Ruijiao Jin (name of second witness), whose residential address is
7F, Block D, Tsinghua Science Park, Haidian Dist, Beijing PRC
was personally present and did see Lifeng Yang (name of person signing the assignment), who is
personally known to me, execute the above assignment.

Ruijiao Jin (signature of second witness)
Signed at the same as above (location of witness signature)
on this day, 9/26, 20 17 (date of signature).

Date: 2017.9.26

Feng Changyu
Inventor's Signature

Full Name: **Changyu Feng**
Residence: RM 702, Unit 1, 4th Building,
ShiZhong Road, HouShaYu Town
Beijing, CN 100084
Citizenship: CN
Mailing Address: Same as above

I, Liu Youshang (name of first witness), whose residential address is
7/F, Block D, Tsinghua Science Park, Haidian Dist, Beijing, PRC
was personally present and did see Changyu Feng (name of person signing the assignment), who
is personally known to me, execute the above assignment.

Liu Youshang (signature of first witness)
Signed at Tsinghua Science Park (location of witness signature)
on this day, 9/26, 2017 (date of signature).

I, Ruiyong Jia (name of second witness), whose residential address is
7E Block D, Tsinghua Science Park, Haidian Dist, Beijing PRC
was personally present and did see Changyu Feng (name of person signing the assignment), who
is personally known to me, execute the above assignment.

Ruiyong Jia (signature of second witness)
Signed at the same as above (location of witness signature)
on this day, 9/26, 2017 (date of signature).