

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JIAN GAO	04/09/2014
PETER PUHOV	04/01/2014
ZHIPENG HU	04/09/2014
WEI HE	04/09/2014
SHAY HAREL	04/01/2014
RECEIVING PARTY DATA	
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Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14230425
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Correspondent Name:	EMC CORPORATION OFFICE OF GENERAL COUN
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ATTORNEY DOCKET NUMBER:	EMC-13-0634
NAME OF SUBMITTER:	JOHN T HURLEY
SIGNATURE:	/John T. Hurley/
DATE SIGNED:	04/09/2014
Total Attachments: 7	
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ASSIGNMENT

WHEREAS, we, Jian Gao, Peter Puhov, Zhipeng Hu, Wei He and Shay Harel, 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 *MANAGING SYSTEM DRIVE INTEGRITY IN DATA STORAGE SYSTEMS* (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 March 31, 2014 as U.S. Application No. 14/230,425;
- was patented under U.S. Patent No. _____ on _____.

WHEREAS, EMC Corporation (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;

AND, we hereby authorize our attorneys, EMC Corporation, to insert here in parenthesis (_____) 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: 4/9/2014

Jian Gao
Inventor's Signature

Print full name of first inventor:

Jian Gao

Residence:

Building 16# 601, RongFeng 2008, Guan An Men
Wai Rd, Xicheng District, Beijing China 100000

Citizenship:

China

Mailing Address:

Same as above

I, Yongjun. Wu (name of first witness), whose residential address is
HuFang lu 22# Building, XiCheng, Beijing
was personally present and did see **Jian Gao** (name of person signing the assignment), who is
personally known to me, execute the above assignment.

Yongjun. Wu (signature of first witness)
Signed at TSP 7 Floor, Hai Dian Beijing (location of witness signature)
on this day, 4/9, 2014 (date of signature).

I, Xinkei Xu (name of first witness), whose residential address is
zhongyuan 6-6-602. Tiantongyuan, Beijing
was personally present and did see **Jian Gao** (name of person signing the assignment), who is
personally known to me, execute the above assignment.

Xinkei Xu (signature of second witness)
Signed at TSP 7 Floor, Hai Dian Beijing (location of witness signature)
on this day, 4/9, 2014 (date of signature).

Date: 09/01/2014

[Signature]
Inventor's Signature

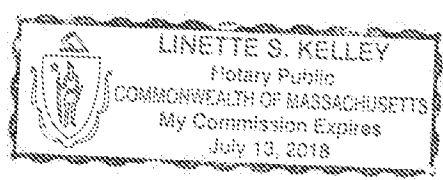
Print full name of second inventor: **Peter Puhov**
Residence: 521 Grafton Street, Shrewsbury, MA 01545
Citizenship: United States of America
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 1st day of April, 2014, then personally appeared before me the above-named **Peter Puhov**, known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

[Signature]
Notary Public

Print Name: Linette S. Kelley
My Commission expires 07/13/2018



Date: 4/9/2014 Zhipeng Hu
Inventor's Signature

Print full name of third inventor: **Zhipeng Hu**
Residence: TusPark, Zhonggauncum Dong Road, Beijing
China 100084
Citizenship: China
Mailing Address: Same as above

I, Yongjun, Wu (name of first witness), whose residential address is
Hu Fang Lu 22nd Building, Xi Cheng, Beijing
was personally present and did see **Zhipeng Hu** (name of person signing the assignment), who
is personally known to me, execute the above assignment.

Yongjun, Wu (signature of first witness)
Signed at TSP 7 Floor, Hai Dian, Beijing (location of witness signature)
on this day, 4/9, 2014 (date of signature).

I, Xinlei Xu (name of first witness), whose residential address is
Zhong Yuan 6-6-602 Tian Tong Yuan Beijing
was personally present and did see **Zhipeng Hu** (name of person signing the assignment), who
is personally known to me, execute the above assignment.

Xinlei Xu (signature of second witness)
Signed at TSP 7 Floor, Hai Dian, Beijing (location of witness signature)
on this day, 4/9, 2014 (date of signature).

Date: 04/09/2014

Wei He
Inventor's Signature

Print full name of fourth inventor:

Wei He

Residence:

166-1-2-1206, Niusha Rd., East 2nd Ring Rd,
Chengdu, China 610000

Citizenship:

China

Mailing Address:

Same as above

I, Yongjun, Wu (name of first witness), whose residential address is
Hu Fang Lu 22th Building, Xi Cheng, Beijing
was personally present and did see Wei He (name of person signing the assignment), who is
personally known to me, execute the above assignment.

Yongjun, Wu (signature of first witness)
Signed at TSP 7 Floor, Hai Dian, Beijing (location of witness signature)
on this day, 4/9, 2014 (date of signature).

I, Xinlei, Xu (name of first witness), whose residential address is
Zhong Yuan 6-6-602, TianTang Yuan, Beijing
was personally present and did see Wei He (name of person signing the assignment), who is
personally known to me, execute the above assignment.

Xinlei, Xu (signature of second witness)
Signed at TSP 7 Floor, Hai Dian Beijing (location of witness signature)
on this day, 4/9, 2014 (date of signature).

Date: 4/1/14

[Signature]
Inventor's Signature

Print full name of fifth inventor: **Shay Harel**
Residence: 127 O'Malley Road, Marlborough, MA 01752
Citizenship: Israel
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 1st day of April, 2014, then personally appeared before me the above-named Shay Harel, known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

[Signature]
Notary Public

Print Name: Linette S. Kelley
My Commission expires 07/13/2018

