

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
XINLEI XU	03/29/2016
LIAM XIONGCHENG LI	03/29/2016
LIFENG YANG	03/29/2016
JIAN GAO	03/29/2016
LILI CHEN	03/29/2016
RUIYONG JIA	03/29/2016
RECEIVING PARTY DATA	
Name:	EMC CORPORATION
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15086390
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>	
Phone:	508-898-8601
Email:	docketing@westboro-ip.com
Correspondent Name:	MUIRHEAD AND SATURNELLI, LLC
Address Line 1:	200 FRIBERG PARKWAY, SUITE 1001
Address Line 4:	WESTBOROUGH, MASSACHUSETTS 01581
ATTORNEY DOCKET NUMBER:	EMS-628US
NAME OF SUBMITTER:	ANNE E. SATURNELLI
SIGNATURE:	/Anne E. Saturnelli/
DATE SIGNED:	03/31/2016
Total Attachments: 7	

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ASSIGNMENT

WHEREAS, we, Xinlei XU, Liam Xiongcheng LI, Lifeng YANG, Jian GAO, Lili CHEN and Ruiyong JIA, 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 CACHING TECHNIQUES, 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 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 attorneys of Muirhead and Saturnelli, LLC to insert here in parenthesis (15/086,390 filed March 31, 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: 2016.3.29 Xinlei Xu
Inventor's Signature

Print full name of first inventor: Xinlei XU
Residence: 6-6-602, Zhongyuan, Tiantongyuan, Changping
Beijing, China 102218
Citizenship: CHINA
Mailing Address: Same as above

I Yousheng Lia (name) whose residential address is Building D, Floor 7, Tsinghua Science Park, Haidian Dist. Beijing was personally present and did see Xinlei Xu (name of person signing the assignment) who is personally known to me, execute the above assignment.

Yousheng Lia (signature of first witness)

Signed at Tsing Hua Science Park (location of witness signature)

on this day March 29th of 2016 (date of signature)

I Feng Changyu (name) whose residential address is Block D, Tsinghua Science Park, No. 1 Zhongnancun East Road, Haidian District Beijing was personally present and did see Xinlei Xu (name of person signing the assignment) who is personally known to me, execute the above assignment.

Feng Changyu (signature of second witness)

Signed at Tsinghua Science Park (location of witness signature)

on this day 29th March of 2016 (date of signature)

Date: 2/29/2016 Xiongcheng Li
Inventor's Signature

Print full name of second inventor: Liam Xiongcheng LI
Residence: Liam Xiongcheng Li, Longhuiyuan 1-3-401,
Huilongguan, C, Beijing, China
Citizenship: CHINA
Mailing Address: Same as above

I Yousheng Lia (name) whose residential address is Building D, 7th Floor, Tsinghua Science Park, Haidian Dist., Beijing was personally present and did see Xiongcheng Li (name of person signing the assignment) who is personally known to me, execute the above assignment.

Yousheng Lia (signature of first witness)
Signed at Tsinghua Science Park (location of witness signature)
on this day 24th March of 2016. (date of signature)

I Feng Changyu (name) whose residential address is 1/F Build D, Tsinghua Science Park, No. 1 Zhongguancun East Road, Haidian District, Beijing was personally present and did see Xiongcheng Li (name of person signing the assignment) who is personally known to me, execute the above assignment.

Feng Changyu (signature of second witness)
Signed at Tsinghua Science Park (location of witness signature)
on this day 29th March of 2016. (date of signature)

Date: 2016.3.29

Lifeng Yang
Inventor's Signature

Print full name of third inventor: **Lifeng YANG**
Residence: 10-3-50A, Xinfujiayuan, Dongcheng District,
Beijing, CHINA 100062
Citizenship: CHINA
Mailing Address: Same as above

I Yousheng Liu (name) whose residential address is Haidian D. 7th Floor, Tsinghua Science Park, Haidian Dist, Beijing, was personally present and did see Lifeng Yang (name of person signing the assignment) who is personally known to me, execute the above assignment.

Yousheng Liu (signature of first witness)

Signed at Tsinghua Science Park (location of witness signature)

on this day 29th, March of 20 16 (date of signature)

I Feng Changyu (name) whose residential address is 1/F, Block D, Tsinghua Science Park No.1, Zhongyuan cun East Road, Haidian District, Beijing, was personally present and did see Lifeng Yang (name of person signing the assignment) who is personally known to me, execute the above assignment.

Feng Changyu (signature of second witness)

Signed at Tsinghua Science Park (location of witness signature)

on this day 29th March of 20 16 (date of signature)

Date: 2016.3.29



Inventor's Signature

Jian GAO

Print full name of fourth inventor:

Residence:

7 FL Building D, TSP,
Beijing, China 100084

Citizenship:

CHINA

Mailing Address:

Same as above

I Yousheng Lian (name) whose residential address is Building D 7th Floor, Tsinghua Science Park, Haidian Dist 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.

Yousheng Lian (signature of first witness)

Signed at Tsinghua Science Park. (location of witness signature)

on this day 29th March. of 20 16. (date of signature)

I Feng Changyu (name) whose residential address is T/F Block D Tsinghua Science Park, No.1 Zhongyuan East Road, Haidian District, 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.

Feng Changyu (signature of second witness)

Signed at Tsinghua Science park. (location of witness signature)

on this day 29th March of 20 16. (date of signature)

Date: 3/29/2016

Lili Chen
Inventor's Signature

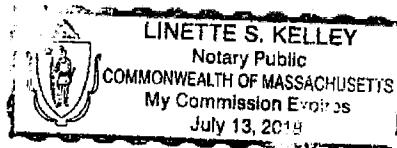
Print full name of fifth inventor: **Lili CHEN**
Residence: 27 Wedgewood Street
Hopkinton, MA 01748
Citizenship: CHINA
Mailing Address: Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Middlesex

On this 29th day of March, 2016, then personally appeared before me the above-named **Lili CHEN** 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.

Linette S. Kelley
Notary Public

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



Date: 2016.3.29 Ruiyong Jia
Inventor's Signature

Print full name of sixth inventor: **Ruiyong JIA**
Residence: Room 403, Unit 1, Building 27, 105 West 3rd Ring,
North Road, HaiDian District,
Beijing, CHINA 100010
Citizenship: CHINA
Mailing Address: Same as above

I Yousheng Lin (name) whose residential address is Building D, 7 Floor, Tsinghua Science Park, Haidian Dist. Beijing was personally present and did see Ruiyong Jia (name of person signing the assignment) who is personally known to me, execute the above assignment.

Yousheng Lin (signature of first witness)

Signed at Tsinghua Science Park (location of witness signature)

on this day 29th March of 2016 (date of signature)

I Feng Changyu (name) whose residential address is 7/F Block D, Tsinghua Science Park, No. 1 Zhongguancun East Road, Haidian District Beijing was personally present and did see Ruiyong Jia (name of person signing the assignment) who is personally known to me, execute the above assignment.

Feng Changyu (signature of second witness)

Signed at Tsinghua Science Park (location of witness signature)

on this day March 29th of 2016 (date of signature)