

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4421895

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
XIANGPING CHEN	05/16/2017
ANTON KUCHEROV	05/16/2017
YUVAL HARDUF	05/18/2017
YING HU	05/16/2016
FELIX SHVAIGER	05/16/2017
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:	15499951
CORRESPONDENCE DATA	
Fax Number:	(781)401-9966
<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:	7814019988
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Correspondent Name:	DALY, CROWLEY, MOFFORD & DURKEE, LLP
Address Line 1:	354A TURNPIKE STREET
Address Line 2:	SUITE 301A
Address Line 4:	CANTON, MASSACHUSETTS 02021-2714
ATTORNEY DOCKET NUMBER:	EMC-384PUS
NAME OF SUBMITTER:	DAVID W. ROUILLE
SIGNATURE:	/David W. Rouille/
DATE SIGNED:	05/18/2017
Total Attachments: 7	

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ASSIGNMENT

WHEREAS, we, Xiangping Chen, Anton Kucherov, Yuval Harduf, Ying Hu and Felix Shvaiger, 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 ENSURE VOLUME CONSISTENCY FOR ONLINE SYSTEM CHECKPOINT and identified as Attorney Docket No. EMC-384PUS, 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 4/28/2017 as U.S. Application No.; 15/499,951
- was patented under U.S. Patent No. _____ on _____

WHEREAS, EMC IP Holding Company LLC (hereinafter "ASSIGNEE"), a Delaware limited liability company 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 me;

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;

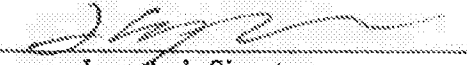
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, 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 that we have appointed and EMC IP Holding Company LLC to insert here in parenthesis (15/499,951 filed on 4/28/2017) 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: 05/16/17


Inventor's Signature

Print full name of first inventor: Xiangping Chen

Residence: 22 Harrington Ridge Road
Sherborn, MA 01770

Citizenship: United States

Mailing Address: Same as above

I, Christopher Sayles (name of first witness), whose residential address is
32 Griffin Rd, Framingham, MA 01701,
was personally presented and did see Xiangping Chen who is personally known to me, execute the
above assignment.

Christopher Sayles (signature of first witness)
Signed at 228 South St, Hopkinton, MA (location of witness signature)
on this day May 16, 2017 (date of witness signature)

I, Xiao Zhou (name of second witness), whose residential address is
75 Station Landing, 214 Needford, 02155,
was personally presented and did see Xiangping Chen who is personally known to me, execute the
above assignment.

Xiao Zhou (signature of second witness)
Signed at 228 South St Hopkinton, MA (location of witness signature)
on this day May 16, 2017 (date of witness signature)

Date: 5/16/2017

Anton Kucherov
Inventor's Signature

Print full name of first inventor: Anton Kucherov

Residence: 7 Congress Street, Apt. 4
Milford, MA 01757

Citizenship: Israel

Mailing Address: Same as above

I, Christopher Sayles (name of first witness), whose residential address is
32 Griffin Rd, Framingham, MA 01701,
was personally presented and did see Anton Kucherov who is personally known to me, execute the
above assignment.

Christopher Sayles (signature of first witness)
Signed at 228 South St, Hopkinton, MA (location of witness signature)
on this day May 16, 2017 (date of witness signature)

I, Xiao Zhao (name of second witness), whose residential address is
75 Station Landing 219, Medford, 02155,
was personally presented and did see Anton Kucherov who is personally known to me, execute the
above assignment.

I, Xiao Zhao (signature of second witness)
Signed at 228 South St, Hopkinton, MA (location of witness signature)
on this day May 16, 2017 (date of witness signature)

Date: 18 MAY 2017

Yuval Harduf
Inventor's Signature

Print full name of first inventor: Yuval Harduf
Residence: 24 Moshe Dayan Street
Yehud 564012
ISRAEL
Citizenship: Israel
Mailing Address: Same as above

I, NOA COHEN (name of first witness), whose residential address is
114 Levi Eshkol, Tel Aviv, Israel
was personally presented and did see Yuval Harduf who is personally known to me, execute the
above assignment.

Noa Cohen
(signature of first witness)
Signed at Gil Yam, ISRAEL (location of witness signature)
on this day 18 May, 2017 (date of witness signature)

I, ADI SLOHON (name of second witness), whose residential address is
20 Eyal Herzetz street Tel Aviv, Israel
was personally presented and did see Yuval Harduf who is personally known to me, execute the
above assignment.

Adi Slohon
(signature of second witness)
Signed at GIL YAM, ISRAEL (location of witness signature)
on this day 18 MAY, 2017 (date of witness signature)

PATENT

Atty. Dckt. No.: EMC-384PUS
Client Case No.: EMC-16-0990

Date: 5/16/2017

[Signature]
Inventor's Signature

Print full name of first inventor: Ying Hu

Residence: 52 Little Pond Road
Northborough, MA 01532

Citizenship: US

Mailing Address: Same as above

I, Christopher Sayles (name of first witness), whose residential address is
32 Griffin Rd Framingham, MA 01701,
was personally presented and did see Ying Hu who is personally known to me, execute the above
assignment.

Christopher Sayles (signature of first witness)
Signed at 228 South St, Hopkinton, MA (location of witness signature)
on this day May 16, 2017 (date of witness signature)

I, Xiao Zhao (name of second witness), whose residential address is
75 Station Landing, 219, Medford, MA 02155,
was personally presented and did see Ying Hu who is personally known to me, execute the above
assignment.

I, Xiao Zhao (signature of second witness)
Signed at 228 South St Hopkinton, MA (location of witness signature)
on this day May 16, 2017 (date of witness signature)

Date: 16 May 2017

[Signature]
Inventor's Signature

Print full name of first inventor: Felix Shvaiger

Residence: 116 Tremont Street, #104
Brighton, MA 02135

Citizenship: Israel

Mailing Address: Same as above

I, Christopher Saylor (name of first witness), whose residential address is
32 Griffin Rd, Framingham MA 01701
was personally presented and did see Felix Shvaiger who is personally known to me, execute the
above assignment.

Christopher Saylor (signature of first witness)
Signed at 228 South St, Hopkinton, MA (location of witness signature)
on this day May 16, 2017 (date of witness signature)

I, Xiao Zhao (name of second witness), whose residential address is
75 Station Landing, 219, Medford, 02155
was personally presented and did see Felix Shvaiger who is personally known to me, execute the
above assignment.

I, Xiao Zhao (signature of second witness)
Signed at 228 South St Hopkinton MA (location of witness signature)
on this day May 16, 2017 (date of witness signature)

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