

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ANDREW L. CHANLER	04/29/2019
KEVIN M. TOBIN	04/29/2019
GABI BENHANOKH	04/28/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EMC IP HOLDING COMPANY LLC
<b>Street Address:</b>	176 SOUTH STREET
<b>City:</b>	HOPKINTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01748
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16398624
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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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<b>ATTORNEY DOCKET NUMBER:</b>	EMS-753US
<b>NAME OF SUBMITTER:</b>	DANIEL P. MCLOUGHLIN
<b>SIGNATURE:</b>	/Daniel P. McLoughlin/
<b>DATE SIGNED:</b>	04/30/2019
<b>Total Attachments: 4</b>	
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source=EMS-753US, Assignment#page4.tif	

**ASSIGNMENT**

**WHEREAS**, we, Andrew L. CHANLER, Kevin M. TOBIN and Gabi BENHANOKH, 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 HOST ACCESS TO STORAGE SYSTEM METADATA, the specification of which:

- ☒ [ X ] 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 IP HOLDING COMPANY LLC (hereinafter "ASSIGNEE"), which is a corporation organized and existing under the laws 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 attorneys of Muirhead and Saturnelli, LLC to insert here in parenthesis ( 16/398,624 filed April 30, 2019 ) 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: 4/29/2019

[Signature]  
Inventor's Signature

Print full name of first inventor:

Andrew L. CHANLER

Residence:

27 Ball Hill Road

Berlin, MA 01503

Citizenship:

USA

Mailing Address:

Same as above

I, Brian Asselin (name) whose residential address is 25 Brousseau Dr. Upton MA 01568 was personally present and did see Andrew Chanler (name of person signing the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at 176 South St, Hopkinton, MA (location of witness signature)

on this day April 29th of 2019. (date of signature)

I, STEPHEN LATHROP (name) whose residential address is 46 BRITR DR MILFORD MA 01757 was personally present and did see ANDREW CHANLER (name of person signing the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at 176 South St, Hopkinton, MA (location of witness signature)

on this day April 29th of 2019. (date of signature)

Date:

4/29/19



Inventor's Signature

Print full name of second inventor:

Kevin M. TOBIN

Residence:

40 Westcott Rd  
Hopedale, MA 01747

Citizenship:

USA

Mailing Address:

Same as above

I, Rong Yu (name) whose residential address is  
176 South St. Hopkinton, MA 01748 was  
personally present and did see Kevin Tobin (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at 176 South St. (location of witness signature)

on this day Apr. 30<sup>th</sup> of 2019 (date of signature)

I, STEPHEN LATROP (name) whose residential address is  
46 BROAD ST. HILFORD MA 01757 was  
personally present and did see KEVIN TOBIN (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at 176 South St (location of witness signature)

on this day April 30 of 2019 (date of signature)

Date: APR-28-2019

  
Inventor's Signature

Print full name of third inventor:

Gabi BENHANOKH

Residence:

14 Gretz ST, Apartment #2

Tel-Aviv 63465, Israel


Citizenship:

ISRAEL

Mailing Address:

Same as above

I DANIEL COHEN (name) whose residential address is  
9 HADIVOGUVA ST, GIV'AT PEUDOT, ISRAEL was  
personally present and did see GABI BENHANOKH (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

  
(signature of first witness)

Signed at Herzellia, Israel (location of witness signature)

on this day APR-28 of 2019. (date of signature)

I Idan Rachumim (name) whose residential address is  
Hadgassim 15, Yehud was  
personally present and did see Gabi Benhanokh (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

  
(signature of second witness)

Signed at Herzellia, Israel (location of witness signature)

on this day APR-28 of 2019. (date of signature)