

## 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>
MIKHAIL DANILOV	01/09/2017
ANDREY FOMIN	01/09/2017
MIKHAIL MALYGIN	01/09/2017
VLADIMIR PRIKHODKO	01/09/2017
ALEXANDER RAKULENKO	02/14/2017
MAXIM TRUSOV	01/09/2017
<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>
Application Number:	15447880
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)523-6850
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<b>Phone:</b>	617-523-2700
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<b>Address Line 1:</b>	10 ST. JAMES AVENUE
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<b>ATTORNEY DOCKET NUMBER:</b>	00246/EMC-16-0068(RU1)US
<b>NAME OF SUBMITTER:</b>	TONI M. SOUSA
<b>SIGNATURE:</b>	/Toni M. Sousa/
<b>DATE SIGNED:</b>	03/02/2017
<b>Total Attachments: 8</b>	

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## ASSIGNMENT

**WHEREAS**, we, Mikhail Danilov, Andrey Fomin, Mikhail Malygin, Vladimir Prikhodko, Alexander Rakulenko, and Maxim Trusov 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 (Application), 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"), a corporation 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

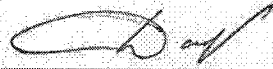
giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

**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 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: 9 Jan 2017



Inventor's Signature

Print full name of inventor

Mikhail Danilov

Residence

St. Petersburg, RU

Citizenship

Russia

Mailing Address

Gakkelevskaya Street, 25-1-161

St. Petersburg, RU 197227

I, Kurilov Andrey (name of first witness), whose residential address is  
Kal'tino, Koltushskoye, 19k1, 133

was personally present and did see Mikhail Danilov (name of person signing the assignment),  
who is personally known to me, execute the above assignment.



(signature of first witness)

Signed at Saint-Petersburg (location of witness signature)

on this day, 9 Jan 2017, 2017 (date of signature).

✓ I, Tavantseva Irina (name of second witness), whose residential address is  
Saint-Petersburg, Engelsa pr. 136-1-23, Russian Federation

was personally present and did see Mikhail Danilov (name of person signing the assignment),  
who is personally known to me, execute the above assignment.



(signature of second witness)

Signed at Saint-Petersburg (location of witness signature)

on this day, 9 Jan 2017, 2017 (date of signature).

Date: 09-Jan 2017

Inventor's Signature

Print full name of inventor

Andrey Fomin

Residence

Vesvolozhsk, RU

Citizenship

Russia

Mailing Address

Plotkina Street, 3, Block 2, Apt. 13

Vesvolozhsk, RU 188644

I, Alexander Fedorov (name of first witness), whose residential address is  
St. Petersburg, pr. Torzha 80-71  
was personally present and did see Andrey Fomin (name of person signing the assignment), who  
is personally known to me, execute the above assignment.

(signature of first witness)

Signed at Saint-Petersburg (location of witness signature)

on this day, 09-Jan 2017, 2017 (date of signature).

I, Sergey Koryushe (name of second witness), whose residential address is  
St. Petersburg, Belysheva 5/6-714  
was personally present and did see Andrey Fomin (name of person signing the assignment), who  
is personally known to me, execute the above assignment.

(signature of second witness)

Signed at Saint-Petersburg (location of witness signature)

on this day, 09-Jan 2017, 2017 (date of signature).

Date: Jan, 9, 2017



Inventor's Signature

Print full name of inventor

Mikhail Malygin

Residence

Saint Petersburg, RU

Citizenship

Russia

Mailing Address

Gakkelevskaya Street, 22/3 Apt. #95

Saint Petersburg, Russia

I, Sergey Koyushev (name of first witness), whose residential address is

Belysheva str. 5/6 - 714 Saint-Petersburg, Russia

was personally present and did see Mikhail Malygin (name of person signing the assignment),  
who is personally known to me, execute the above assignment.



(signature of first witness)

Signed at Saint-Petersburg (location of witness signature)

on this day, 9 Jan, 2017 (date of signature).

I, Sergey Karpovich (name of second witness), whose residential address is

Vsevolozhsk Tsentrulnaya sd. 4-92

was personally present and did see Mikhail Malygin (name of person signing the assignment),  
who is personally known to me, execute the above assignment.



(signature of second witness)

Signed at Saint-Petersburg (location of witness signature)

on this day, 9 Jan, 2017 (date of signature).

Date: 7 Jan, 2017

  
Inventor's Signature

Print full name of inventor

Vladimir Prikhodko

Residence

Saint Petersburg, RU

Citizenship

Russia

Mailing Address

Dalnevostochniy Prospekt, 71-1322

Saint Petersburg, Russia

I, Sergey Koyushov (name of first witness), whose residential address is  
Russia Belysheva st 5/6-214 Saint-Petersburg  
was personally present and did see Vladimir Prikhodko (name of person signing the assignment),  
who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at Saint-Petersburg (location of witness signature)

on this day, 9 Jan, 2017 (date of signature).

I, Sergey Karpenko (name of second witness), whose residential address is  
Russia Usevolozhsk Tsentralnaya 6-92  
was personally present and did see Vladimir Prikhodko (name of person signing the assignment),  
who is personally known to me, execute the above assignment.

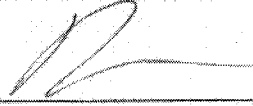
 (signature of second witness)

Signed at Saint-Petersburg (location of witness signature)

on this day, 9 Jan, 2017 (date of signature).



Date: 14 Feb 2017

  
Inventor's Signature

Print full name of inventor

Alexander Rakulenko

Residence

Seattle, WA

Citizenship

Russia

Mailing Address

4100 SW Edmunds Street


Apt. 132

Seattle WA, 98116

I, Laura Driscoll (name of first witness), whose residential address is

4100 SW Edmunds St. Seattle, WA 98116.

was personally present and did see Alexander Rakulenko (name of person signing the assignment), who is personally known to me, execute the above assignment.

  
(signature of first witness)

Signed at 4100 SW Edmunds St. Seattle, WA 98116 (location of witness signature)

on this day, February 14th, 2017 (date of signature).

I, Alia Valenti (name of second witness), whose residential address is

4100 SW Edmunds str. Seattle WA 98116

was personally present and did see Alexander Rakulenko (name of person signing the assignment), who is personally known to me, execute the above assignment.

  
(signature of second witness)

Signed at 4100 SW Edmunds str. Seattle WA 98116 (location of witness signature)

on this day, February 15th, 2017 (date of signature).

Date: Jan 9, 2017

[Signature]  
Inventor's Signature

Print full name of inventor

Maxim Trusov

Residence

Saint Petersburg, RU

Citizenship

Russia

Mailing Address

Sestroretsk, Dubkovskoe Shosse 38, Apt. 44  
Saint Petersburg, RU 197706

I, Sergey Koyushev (name of first witness), whose residential address is  
Belysheva str 5/6 apt 714 Saint-Petersburg Russia  
was personally present and did see Maxim Trusov (name of person signing the assignment), who  
is personally known to me, execute the above assignment.

[Signature] (signature of first witness)  
Signed at Saint-Petersburg (location of witness signature)  
on this day, 9 Jan, 2017 (date of signature).

I, Maria Gavrilova (name of second witness), whose residential address is  
St. Petersburg, Svechnoy per., 5, apt 38  
was personally present and did see Maxim Trusov (name of person signing the assignment), who  
is personally known to me, execute the above assignment.

[Signature] (signature of second witness)  
Signed at St. Petersburg (location of witness signature)  
on this day, 9 Jan, 2017 (date of signature).