

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT5361802

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NICKOLAY DALMATOV	02/06/2019
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:	16261675
CORRESPONDENCE DATA	
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<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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ATTORNEY DOCKET NUMBER:	130-199 113172.01
NAME OF SUBMITTER:	HOLMES W. ANDERSON
SIGNATURE:	/Holmes W. Anderson/
DATE SIGNED:	02/06/2019
Total Attachments: 3	
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source=Assignment#page3.tif	

ASSIGNMENT

WHEREAS, I, **Nickolay Dalmatov**, 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

IMPROVING PERFORMANCE OF READ OPERATIONS BY COORDINATING READ CACHE MANAGEMENT AND AUTO-TIERING,

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 30 Jan 2019 as U.S. Application No. 16261675;
- 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 with me;

THEREFORE, in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I 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; I 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. I 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, I hereby further agree for myself and my 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, I 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, I do hereby appoint as my attorneys Holmes W. Anderson and John C. Gorecki of Anderson Gorecki LLP, whose full office address is 2 Dundee Park, Suite 301A, Andover, MA 01810, and authorize them to prosecute the patent application(s) and correct errors in this Assignment and to insert any further identification and other information necessary or desirable to make this Assignment suitable for recording in a domestic or foreign Patent Office.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal as set forth below:

Date: 06 Feb 2019


Inventor's Signature

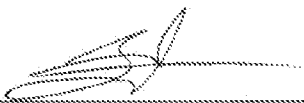
Print full name of inventor **Nickolay Dalmatov**

Residence **RU**


Citizenship **RU**

Mailing Address **Slavy, 13, 108
St. Petersburg, Russia**

I, Nikita Zak (name of first witness), whose residential address is
Leningrad region, Vsevolozhsk, Magistral'naya st. 3-11
was personally present and did see **Nickolay Dalmatov** (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, 06 Feb 2019, 2018 (date of signature).

I, Spirina Irina (name of second witness), whose residential address is
SPb, Uchitel'skaya 19-3-139
was personally present and did see **Nickolay Dalmatov** (name of person signing the
assignment), who is personally known to me, execute the above assignment.


(signature of second witness)
Signed at Saint Peterburg (location of witness signature)
on this day, 06 Feb 2019, 2018 (date of signature).