

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SORIN FAIBISH	07/24/2018
IVAN BASSOV	07/16/2018
RUSTEM RAFIKOV	07/20/2018
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:	16043640
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-700US
NAME OF SUBMITTER:	ANNE E. SATURNELLI
SIGNATURE:	/Anne E. Saturnelli/
DATE SIGNED:	07/24/2018
Total Attachments: 5	
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ASSIGNMENT

WHEREAS, we, Sorin FAIBISH, Ivan BASSOV and Rustem RAFIKOV, 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 CONCURRENT DATA ENTROPY AND DIGEST COMPUTATION OPERATING ON SAME DATA FOR CPU CACHE EFFICIENCY, 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 (16/043,640 filed July 24, 2018) 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: 07/24/2018

Faibish

Inventor's Signature

Print full name of first inventor:

Sorin Faibish

Residence:

11 Selwyn Road, Newton, MA 02461

Citizenship:

USA

Mailing Address:

Same as Above

I, Christine Carey (name of first witness), whose residential address is
Upton, MA

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

Christine Carey (signature of first witness)

Signed at 228 South St. (location of witness signature)

on this day, 07/24, 2018 (date of signature).

I, Jill Kelly (name of second witness), whose residential address is
Shrewsbury, MA

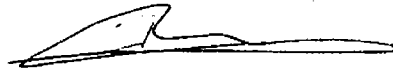
was personally present and did see Sorin Faibish (name of person signing the assignment), who
is personally known to me, execute the above assignment.

Jill Kelly (signature of second witness)

Signed at 228 South St. (location of witness signature)

on this day, 07/24, 2018 (date of signature).

Date: 7/16/2018



Inventor's Signature

Print full name of second Inventor:

Ivan BASSOV

Residence:

55 Harvard Ave, Apt. 3

Brookline, MA 02446

Citizenship:

USA

Mailing Address:

Same as above

I Christine Carey (name) whose residential address is Upton, MA was personally present and did see Ivan Bassov (name of person signing the assignment) who is personally known to me, execute the above assignment.

Christine Carey (signature of first witness)

Signed at 228 South St. (location of witness signature)

on this day 07/16 of 20 18. (date of signature)

I Jill Kelly (name) whose residential address is Shrewsbury, MA was personally present and did see Ivan Bassov (name of person signing the assignment) who is personally known to me, execute the above assignment.

Jill Kelly (signature of second witness)

Signed at 228 South St. (location of witness signature)

on this day 07/16 of 20 18. (date of signature)

Date: 07/20/18



Inventor's Signature

Print full name of third inventor:

Rustem RAFIKOV

Residence:

59 Grove Street
Hopkinton, MA 01748

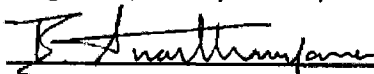
Citizenship:

Russia

Mailing Address:

Same as above

I ANANTH BALACHANDRAN (name) whose residential address is
23 WOODBRINE RD. #3, NATICK, MA 01760 was
personally present and did see RUSTEM RAFIKOV (name of person signing the
assignment) who is personally known to me, execute the above assignment.



(signature of first witness)

Signed at HOPKINTON (location of witness signature)

on this day 20th JULY of 2018. (date of signature)

I Bruce Zimmerman (name) whose residential address is
Concord, MA was
personally present and did see Rustem Rafeikov (name of person signing the
assignment) who is personally known to me, execute the above assignment.



(signature of second witness)

Signed at Hopkinton, MA (location of witness signature)

on this day 20 July of 2018. (date of signature)