

## 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>
SORIN FAIBISH	10/30/2018
JAMES M. PEDONE JR.	10/25/2018
IVAN BASSOV	10/25/2018
<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:	16174857
<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>	
<b>Phone:</b>	508-898-8601
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<b>Correspondent Name:</b>	MUIRHEAD AND SATURNELLI, LLC
<b>Address Line 1:</b>	200 FRIBERG PARKWAY, SUITE 1001
<b>Address Line 4:</b>	WESTBOROUGH, MASSACHUSETTS 01581
<b>ATTORNEY DOCKET NUMBER:</b>	EMS-717US
<b>NAME OF SUBMITTER:</b>	ANNE E. SATURNELLI
<b>SIGNATURE:</b>	/Anne E. Saturnelli/
<b>DATE SIGNED:</b>	10/30/2018
<b>Total Attachments: 5</b>	
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source=EMS-717US, Assignment#page2.tif	
source=EMS-717US, Assignment#page3.tif	
source=EMS-717US, Assignment#page4.tif	



**ASSIGNMENT**

**WHEREAS**, we, Sorin FAIBISH, Ronald A. MILLER II, James M. PEDONE Jr. and Ivan BASSOV, 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 TECHNIQUES FOR OPTIMIZING DATA REDUCTION BY UNDERSTANDING APPLICATION DATA, 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.

Date: 10/30/2018

*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, 10/30, 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, 10/30, 2018 (date of signature)

Date: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Signature

Print full name of second inventor:

**Ronald A. MILLER II**

Residence:

8805 Attingham Dr.

Raleigh, NC 27615

Citizenship:

USA

Mailing Address:

Same as above

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_ was  
personally present and did see \_\_\_\_\_ (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

\_\_\_\_\_ (signature of first witness)

Signed at \_\_\_\_\_ (location of witness signature)

on this day \_\_\_\_\_ of 20\_\_\_. (date of signature)

I \_\_\_\_\_ (name) whose residential address is \_\_\_\_\_ was  
personally present and did see \_\_\_\_\_ (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

\_\_\_\_\_ (signature of second witness)

Signed at \_\_\_\_\_ (location of witness signature)

on this day \_\_\_\_\_ of 20\_\_\_. (date of signature)

Date:

10/25/18

  
Inventor's Signature

James M. PEDONE Jr.

Print full name of third inventor:

Residence:

1 Pheasant Hill Run

West Boylston, MA 01583

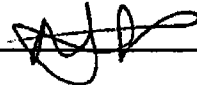
Citizenship:

USA

Mailing Address:

Same as above

I Andrew Hood (name) whose residential address is 115 CEDAR STREET, DORCHESTER MA 01916 was personally present and did see JAMES PEDONE JR (name of person signing the assignment) who is personally known to me, execute the above assignment.

  
(signature of first witness)

Signed at 228 SOUTH ST HOP. (location of witness signature)

on this day 25<sup>th</sup> OCT of 2018. (date of signature)

I WILLIAM A STEWART (name) whose residential address is 28 SHERYL DRIVE, WATFORDVILLE MA 01588 was personally present and did see JAMES PEDONE JR (name of person signing the assignment) who is personally known to me, execute the above assignment.

  
(signature of second witness)

Signed at 228 SOUTH ST. HOPKINTON (location of witness signature)

on this day 25<sup>TH</sup> OCTOBER of 2018. (date of signature)

Attorney Docket No.: EMS-717US  
EMC Docket No.: 112258.01

Date: 10/25/2018

  
Inventor's Signature

Print full name of fourth inventor:

Ivan BASSOV

Residence:

55 Harvard Avenue  
Brookline, MA 02446

Citizenship:

USA

Mailing Address:

Same as above

I Vladimir Basov (name) whose residential address is Lynn, 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.

V Basov (signature of first witness)

Signed at Brookline, MA (location of witness signature)

on this day 10/25 of 20 18. (date of signature)

I Olga Basova (name) whose residential address is Lynn, 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.

Olbasova (signature of second witness)

Signed at Brookline, MA (location of witness signature)

on this day 10/25 of 20 18. (date of signature)