

## 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>
ERIK P. SMITH	01/22/2019
MASSARRAH N. TANNOUS	01/24/2019
JEAN E. PIERRE	01/24/2019
RICHARD ISAAC	01/28/2019
ARIEH DON	01/23/2019
<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>	16260499
<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
<b>Email:</b>	docketing@WESTBORO-IP.COM
<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-725US
<b>NAME OF SUBMITTER:</b>	ANNE E. SATURNELLI
<b>SIGNATURE:</b>	/Anne E. Saturnelli/
<b>DATE SIGNED:</b>	01/29/2019
<b>Total Attachments: 6</b>	
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**ASSIGNMENT**

**WHEREAS**, we, Erik P. SMITH, Massarra N. TANNOUS, Jean E. PIERRE, Richard ISAAC, and ArieH DON, 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 DATA TRANSMISSION TECHNIQUES BETWEEN SYSTEMS HAVING DIFFERENT COMMUNICATION SPEEDS, 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 ( 16/260,499 filed January 29, 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:

1/22/19

  
Inventor's Signature

Print full name of first inventor:

Erik P. SMITH

Residence:

71 Franklin Street  
Douglas, MA 01516

Citizenship:

USA

Mailing Address:

Same as above

I Alan Rajappa (name) whose residential address is 1 Tupperware Drive Unit 324 North Smithfield RI 02896 was personally present and did see Erik Smith (name of person signing the assignment) who is personally known to me, execute the above assignment.

  
(signature of first witness)

Signed at Dell EMC 176 South St (location of witness signature)

on this day 1/22 of 2019. (date of signature)

I Eric Pun (name) whose residential address is 2 Choate Lane Southborough MA 01772 was personally present and did see Erik Smith (name of person signing the assignment) who is personally known to me, execute the above assignment.

Eric P  
(signature of second witness)

Signed at Dell EMC 176 South Street (location of witness signature)

on this day 1/22 of 2019. (date of signature)

Date: 01/24/2019

Massarra  
Inventor's Signature

Print full name of second inventor:

Massarra N. TANNOUS

Residence:

2 Lyndon Road, Unit 1

Milford, MA 01757

Citizenship:

USA

Mailing Address:

Same as above

I, Alan Rajapa (name) whose residential address is  
1 Tupacwac Unit 324 North Smithfield R.I. 02896 was  
personally present and did see Massarra Tannous (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

Alan Rajapa (signature of first witness)

Signed at Dell EMC 176 South St (location of witness signature)

on this day 1/24 of 2019. (date of signature)

I, Anthony Fong (name) whose residential address is  
33 Margaret Drive, Norton MA 02766 was  
personally present and did see Massarra Tannous (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

Anthony Fong (signature of second witness)

Signed at Dell EMC 176 South St Hyannis MA (location of witness signature)

on this day 1/24 of 2019. (date of signature)

Date:

1/24/19



Inventor's Signature

Print full name of third inventor:

Jean E. PIERRE

Residence:

38 Clinton Street  
Brockton, MA 02302

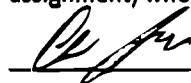
Citizenship:

USA

Mailing Address:

Same as above

I Alan Rayapa (name) whose residential address is  
1 Tupperage Unit 324 North Smithfield RI 02896 was  
personally present and did see Jean Pierre (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

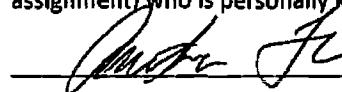


(signature of first witness)

Signed at Dell EMC 176 South St (location of witness signature)

on this day 1/24 of 2019 (date of signature)

I Anthony Fong (name) whose residential address is  
33 Margaret Drive, Norron MA 02766 was  
personally present and did see Jean Pierre (name of person signing the  
assignment) who is personally known to me, execute the above assignment.



(signature of second witness)

Signed at Dell EMC 176 South St, Hplinton<sup>MA</sup> (location of witness signature)

on this day 1/24 of 2019 (date of signature)

Date:

1/28/19

Richard Isaac  
Inventor's Signature

**Richard ISAAC**

Print full name of fourth inventor:

Residence:

55 Woodpecker Road

Stoughton, MA 02072

Citizenship:

USA

Mailing Address:

Same as above

I, Laura Isaac (name) whose residential address is  
55 Woodpecker Rd., Stoughton, MA 02072 was  
personally present and did see RICHARD ISAAC (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

Laura Isaac (signature of first witness)

Signed at 55 Woodpecker Rd., Stoughton, MA (location of witness signature)

on this day 1/28 of 20 19 (date of signature)

I, Richard Isaac Jr. (name) whose residential address is  
55 Woodpecker Rd., Stoughton, MA 02072 was  
personally present and did see RICHARD ISAAC (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

Richard Isaac Jr. (signature of second witness)

Signed at 55 Woodpecker Rd., Stoughton, MA (location of witness signature)

on this day Jan. 28 of 20 19 (date of signature)

Date: 1.23.19

[Signature]  
Inventor's Signature

Print full name of fifth inventor:

Arieh DON

Residence:

45 Dexter Road

Newton, MA 02460

Citizenship:

USA

Mailing Address:

Same as above

I, Charlotte Chen (name) whose residential address is  
5 Clarendon St Newton MA 02460 was  
personally present and did see ARIEH DON (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at Hopkinton MA (location of witness signature)

on this day Jan 23 of 2019 (date of signature)

I, Nirit Lvovsky (name) whose residential address is  
39 Homewood Rd Waban MA 02468 was  
personally present and did see ARIEH DON (name of person signing the  
assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at Hopkinton MA (location of witness signature)

on this day Jan 23 of 2019 (date of signature)