

## 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>
GRANT R. WALLACE	04/11/2017
<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:	15486430
<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	170360-013400US
<b>NAME OF SUBMITTER:</b>	ALY Z. DOSSA
<b>SIGNATURE:</b>	/Aly Z. Dossa/
<b>DATE SIGNED:</b>	03/09/2018
<b>Total Attachments: 2</b>	
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source=Assignment as filed_2018.03.09 (170360-013400US)#page2.tif	

ASSIGNMENT

WHEREAS, I, Grant R Wallace, 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 MICRO-SERVICE BASED DEDUPLICATION, 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 \_\_\_\_\_ as \_\_\_\_\_;
- was patented under U.S. Patent No. \_\_\_\_\_ on \_\_\_\_\_.

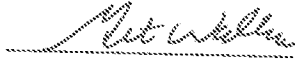
WHEREAS, EMC IP Holding Company LLC (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements 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;

Date: 4/11/2017

  
Inventor's Signature

Print full name of inventor: Grant Robert Wallace  
Residence: Pennington, New Jersey  
Citizenship: US  
Mailing Address: c/o EMC IP Holding Company LLC  
176 South Street  
Hopkinton, Massachusetts 01748


I Darren C. Sawyer (name) whose residential address is  
246 Exeter Ave, San Carlos, CA 94070  
was personally present and did see Grant Robert Wallace (name of person signing  
the assignment) who is personally known to me, execute the above assignment.

  
(signature of first witness)

Signed at 2421 Mission College, Santa Clara, CA (location of witness signature)

on this day April 11 of 2017. (date of signature)

I Kimberly Lu (name) whose residential address is  
1498 S. Wolfe Rd. Sunnyvale, CA 94087  
was personally present and did see Grant Robert Wallace (name of person signing  
the assignment) who is personally known to me, execute the above assignment.

  
(signature of first witness)

Signed at 2421 Mission College Blvd. Santa Clara, CA 95054 (location of witness signature)

on this day April 11 of 2017. (date of signature)