

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4607540

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	WILLIAM C. DAVENPORT	08/20/2017
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:	15499488
CORRESPONDENCE DATA		
Fax Number:	(508)366-4688	
<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:	508-616-2900	
Email:	Docket@BainwoodHuang.com	
Correspondent Name:	BAINWOOD, HUANG & ASSOCIATES, LLC	
Address Line 1:	2 CONNECTOR ROAD	
Address Line 4:	WESTBOROUGH, MASSACHUSETTS 01581	
ATTORNEY DOCKET NUMBER:	1003-514	
NAME OF SUBMITTER:	BRUCE D. RUBENSTEIN, ESQ.	
SIGNATURE:	/Bruce D. Rubenstein #39,349/	
DATE SIGNED:	09/22/2017	
Total Attachments: 3		
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ASSIGNMENT

WHEREAS, I, William C. Davenport, as the original inventor or an original joint inventor 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

**MERGING MAPPING METADATA TO PROMOTE REFERENCE COUNTING
EFFICIENCY**

which is further identified by Attorney Docket Number 1003-514;

WHEREAS, EMC IP Holding Company LLC (hereinafter "ASSIGNEE"), a limited liability company organized and existing under the laws of the state of Delaware and having a usual place of business at 176 South Street, Hopkinton, MA, 01748, USA, desires to acquire an interest therein in accordance with agreements duly entered into with me;

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, 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 me 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 hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses

(15/499,488 , filed 4/27/2017

the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

Date: 8/20/2017

William C. Davenport
Inventor's Signature

Legal name of inventor:

William C. Davenport

Residence:

3852 Alameda Pl.
San Diego, CA 92103
United States of America

Mailing Address:

Same as above

Citizenship:

US

I Amy Migliori (name) whose residential address is
4605 36th St, San Diego CA 92116

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

[Signature] (signature of first witness)

Signed at 4605 36th St (location of witness signature)

on this day 8/20/17 of 2017. (date of signature)

I Ben Migliori (name) whose residential address is
4605 36th St, San Diego, CA 92116

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

[Signature] (signature of second witness)

Signed at 4605 36th St (location of witness signature)

on this day August 20 of 2017. (date of signature)