

## 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>
QIANG MA	10/24/2019
JAMES PENDERGRAFT	10/24/2019
HAO SUN	10/23/2019
JICHAO ZHANG	10/23/2019
CHUN WEI	10/28/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EMC IP HOLDING COMPANY LLC
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<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>	16665455
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<b>ATTORNEY DOCKET NUMBER:</b>	DELL-090PUS
<b>NAME OF SUBMITTER:</b>	MARISA J. DUBUC
<b>SIGNATURE:</b>	/Marisa J. Dubuc/
<b>DATE SIGNED:</b>	10/28/2019
<b>Total Attachments: 7</b>	

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## ASSIGNMENT

WHEREAS, we, Qiang Ma, James Pendergraft, Hao Sun, Jichao Zhang and Chun Wei, 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 EXPRESSION-BASED FEATURE TOGGLE IN AN APPLICATION PROGRAMMING INTERFACE (API) and identified as Attorney Docket No. DELL-090PUS, 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"), a Delaware limited liability company 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 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, 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 that we have appointed and EMC IP Holding Company LLC to insert here in parenthesis (161665 455 10-28-19) 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:

PATENT  
Atty. Dckt. No.: DELL-090PUS  
Client Case No.: EMC-16-0872.01

Date: 2019.10.24

Print full name of first inventor:  
Residence:

Citizenship:  
Mailing Address:

Qiang Ma

Inventor's Signature

Qiang Ma  
8-2-2201, Number 169, 2nd BinHe Road  
Huayang Town, Chengdu  
CHINA  
China  
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Date: \_\_\_\_\_

Print full name of first inventor:  
Residence:

Citizenship:  
Mailing Address:

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

James Pendergraft  
5512 Blue Sage Drive  
Raleigh, North Carolina 27606  
United States  
Same as above

PATENT

Atty. Dckt. No.: DELL-090PUS  
Client Case No.: EMC-16-0872.01

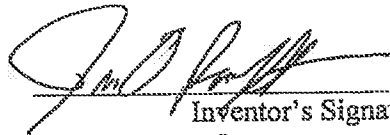
Date: 10/24/2019

Print full name of first inventor:

Residence:

Citizenship:

Mailing Address:



Inventor's Signature

James Pendergraft

5512 Blue Sage Drive

Raleigh, North Carolina 27606

United States

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PATENT

Atty. Dckt. No.: DELL-090PUS  
Client Case No.: EMC-16-0872.01

Date: Oct. 23, 2019

Print full name of first inventor:  
Residence:

Citizenship:  
Mailing Address:

Hao Sun

Inventor's Signature

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CHINA

China  
Same as above

PATENT

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PATENT  
Atty. Dckt. No.: DELL-090PUS  
Client Case No.: EMC-16-0872.01

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

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

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Citizenship:  
Mailing Address:

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Same as above

Date: 20/9.10.23

Jichao Zhang  
Inventor's Signature

Print full name of first inventor:  
Residence:

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CHINA

Citizenship:  
Mailing Address:

China  
Same as above



PATENT  
Atty. Dckt. No.: DELL-090PUS  
Client Case No.: EMC-16-0872.01

Date: 2019.10.28

Chun Wei

Inventor's Signature

Print full name of first inventor:

Chun Wei

Residence:

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Jiangsu Province  
Suzhou City  
CHINA

Citizenship:

China

Mailing Address:

Same as above

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