

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
QIANG MARCHANT	10/17/2017
JAMES ODIS PENDERGRAFT	10/19/2017
HAO SUN	10/17/2017
JICHAO ZHANG	10/17/2017
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:	15788383
CORRESPONDENCE DATA	
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<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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Correspondent Name:	MUIRHEAD AND SATURNELLI, LLC
Address Line 1:	200 FRIBERG PARKWAY, SUITE 1001
Address Line 4:	WESTBOROUGH, MASSACHUSETTS 01581
ATTORNEY DOCKET NUMBER:	EMS-667US
NAME OF SUBMITTER:	ANNE E. SATURNELLI
SIGNATURE:	/Anne E. Saturnelli/
DATE SIGNED:	10/19/2017
Total Attachments: 5	
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ASSIGNMENT

WHEREAS, we, Qiang MA, James Odis PENDERGRAFT, Hao SUN and Jichao ZHANG, 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 TELEMETRY SERVICE, 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 (15/788,383 filed October 19, 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.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: 2017. 10. 17 Qiang Ma
Inventor's Signature

Print full name of first inventor: **Qiang MA**
Residence: Room 8-2-2201, Number 169, Second Binhe Road
Huayang town, Shuangliu County, Chengdu, China
Citizenship: China
Mailing Address: Same as above

I Zhe Yang (name) whose residential address is
Jiniao Yuan #7, Jintong Lu, Jinniu District, Chengdu, China

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

Zhe Yang (signature of first witness)
Signed at 7/F, C12, Tianfu Software Park, Chengdu, China (location of witness signature)

on this day Oct. 17 of 2017. (date of signature)


I Mao Zhu (name) whose residential address is
Room 11-1504, One TianFu Road, Chengdu Hi-Tech Zone, China

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

Mao Zhu (signature of second witness)
Signed at 7/F, C12, Tianfu Software Park, Chengdu, China (location of witness signature)

on this day Oct. 17 of 2017. (date of signature)

Date: 10/19/2017


Inventor's Signature

James Odis PENDERGRAFT

Print full name of second inventor:

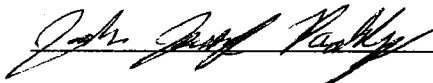
Residence: 5512 Blue Sage Drive

Raleigh, NC 27606

Citizenship: USA

Mailing Address: Same as above

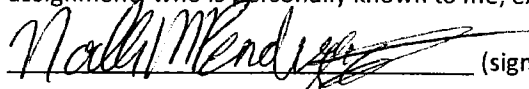
I John Joseph Pashby (name) whose residential address is 108 Larkwood Lane, Cary NC, 27518 was personally present and did see James Odis Pendergraft (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at 5512 Blue Sage Drive (location of witness signature)

on this day October 19 of 2017. (date of signature)

I Nelle Marie Pendergraft (name) whose residential address is 5512 Blue Sage Drive, Raleigh, NC 27606 was personally present and did see James Odis Pendergraft (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at 5512 Blue Sage Drive, Raleigh NC (location of witness signature)

on this day October 19 of 2017. (date of signature)

Date: Oct. 17, 2017

Hao Sun
Inventor's Signature

Print full name of third inventor: **Hao SUN**
Residence: Room 401, No. 11, Lane 3885, North Yanggao Road
201208 Shanghai, China
Citizenship: China
Mailing Address: Same as above

I, Shermann Liu (name) whose residential address is
Room 401, NO. 50, Yuying Road, 201315 Shanghai, P.R. China

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

Shermann (signature of first witness)

Signed at EMC Shanghai CoE (location of witness signature)

on this day Oct 17 of 2017. (date of signature)

I, Dazhi Dong (name) whose residential address is

Room 101, No. 18, Qixin Road, 201108 Shanghai, P.R. China

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

Dazhi Dong (signature of second witness)

Signed at EMC Shanghai CoE (location of witness signature)

on this day Oct. 17 of 2017. (date of signature)

Date: Oct. 17, 2017

Jichao Zhang

Inventor's Signature

Print full name of fourth inventor:

Jichao ZHANG

Residence:

2f, Building #2, Kic Plaza, No.252
272103 Shanghai, China

Citizenship:

China

Mailing Address:

Same as above

I Sherman Lin (name) whose residential address is

2F, Building 2, KIC Plaza, No. 252, Shanghai, China

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

Sherman (signature of first witness)

Signed at EMC Shanghai COE (location of witness signature)

on this day Oct. 17 of 2017. (date of signature)

I Nicholas Wei (name) whose residential address is

2F, Building 2, KIC Plaza, No. 252, Shanghai, China

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

Nicholas Wei (signature of second witness)

Signed at EMC Shanghai COE (location of witness signature)

on this day Oct. 17 of 2017. (date of signature)