

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4530430

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BRADLEY A BOWLIN	07/28/2017
RONG YU	07/28/2017
ARIEH DON	07/28/2017
PENG WU	07/28/2017
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:	14755652
CORRESPONDENCE DATA	
Fax Number:	(408)562-1417
<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:	(408) 562-1446
Email:	jeannie.wu@emc.com
Correspondent Name:	DEANNA SANTOS - LEGAL IP GROUP
Address Line 1:	5455 GREAT AMERICA PARKWAY
Address Line 4:	SANTA CLARA, CALIFORNIA 95054
ATTORNEY DOCKET NUMBER:	EMC-14-1121
NAME OF SUBMITTER:	ANDRE GIBBS
SIGNATURE:	/Andre Gibbs/
DATE SIGNED:	08/01/2017
Total Attachments: 6	
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ASSIGNMENT

WHEREAS, we, Ajith **BALAKRISHNAN**, Bradley A. **BOWLIN**, Rong **YU**, Arich **DON**, and Peng **WU** 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, **METHOD AND SYSTEM FOR MACHINE LEARNING FOR WRITE COMMAND SELECTION BASED ON TECHNOLOGY FEEDBACK**, 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 June 30, 2015 as U.S. Application No. 14/755,652;
- ☐ 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 State 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;

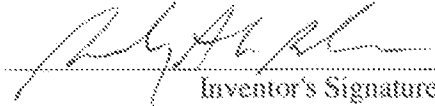
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, 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.

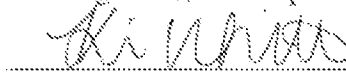
IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: 7-28-2017


Inventor's Signature

Print full name of second inventor: **Bradley A. Bowlin**
Residence: Fort Collins, CO 80525
Citizenship: USA
Mailing Address: 3718 Rochdale Drive
Fort Collins, CO 80525

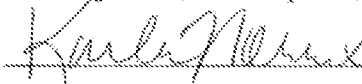
I Kimberly White (name) whose residential address is
1811 South Quebec Way #202, Denver, CO 80231
was personally present and did see Bradley A. Bowlin (name of person signing
the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at Brad's residence (location of witness signature)

on this day July 28th of 20 17 (date of signature)

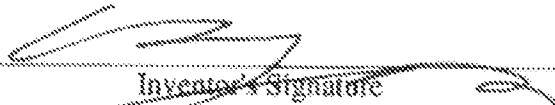
I Karla Norris (name) whose residential address is
3718 Rochdale Drive Fort Collins, CO 80525
was personally present and did see Bradley A. Bowlin (name of person signing
the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at Brad's residence (location of witness signature)

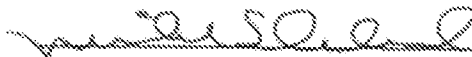
on this day July 28th of 20 17 (date of signature)

Date: 7/28/17


Inventor's Signature

Print full name of third inventor: **Rong Yu**
Residence: West Roxbury, MA 02132
Citizenship: China
Mailing Address: 440 W Roxbury Parkway
West Roxbury, MA 02132

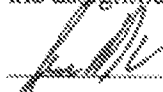
I Michael Schallard (name) whose residential address is
20 Jefferson Road, Franklin MA
was personally present and did see Rong Yu (name of person signing
the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at 176 South Street (location of witness signature)

on this day 28, July of 2017. (date of signature)

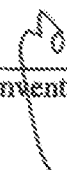
I Jeremy O'Brien (name) whose residential address is
3 Appleton Dr Westborough MA 01581
was personally present and did see Rong Yu (name of person signing
the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at 176 South St Hopedale MA (location of witness signature)

on this day July 28 of 2017. (date of signature)

Date: 7.28.17


Inventor's Signature

Print full name of fourth inventor: Arieh Don
Residence: Newton, MA
Citizenship: USA
Mailing Address: 45 Dexter Road
Newton, MA 02460

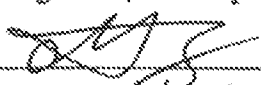
I Ron Abraham (name) whose residential address is
180 Gardner Rd Brookline MA 02445
was personally present and did see _____ (name of person signing
the assignment) who is personally known to me, execute the above assignment.

(signature of first witness)

Signed at Hopkinton MA (location of witness signature)

on this day July 28 of 20 17 (date of signature)

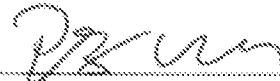
I Evgeny Malkevich (name) whose residential address is
212 Adams St Newton MA 02458
was personally present and did see _____ (name of person signing
the assignment) who is personally known to me, execute the above assignment.


(signature of second witness)

Signed at Hopkinton MA (location of witness signature)

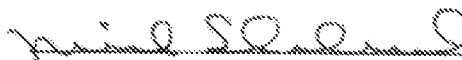
on this day July - 28 of 20 17 (date of signature)

Date: 7/28/2017


Inventor's Signature

Print full name of fifth inventor: Peng Wu
Residence: Westborough, MA 01581
Citizenship: China
Mailing Address: 8 Jefferson Road
Westborough, MA 01581

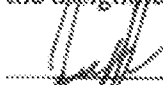
I Michael Schuman (name) whose residential address is
20 Jefferson Road, Framingham, MA
was personally present and did see Peng Wu (name of person signing
the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at 176 South St. Wrentham (location of witness signature)

on this day 28, July of 2017. (date of signature)

I Jeremy O'Hara (name) whose residential address is
3 Appleton Dr. Westborough MA 01581
was personally present and did see Peng Wu (name of person signing
the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at 176 South St. Wrentham MA (location of witness signature)

on this day July 28 of 2017. (date of signature)