

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4695006

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YIFAN SUN	11/13/2017
LAYNE PENG	07/25/2017
ROBERT A. LINCOURT JR.	05/30/2017
JOHN CARDENTE	05/31/2017
JUNPING ZHAO	11/17/2017
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:	15487887
CORRESPONDENCE DATA	
Fax Number:	(631)393-6271
<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:	631-393-6270
Email:	nyoffice@rml-law.com
Correspondent Name:	JOSEPH B. RYAN
Address Line 1:	48 SOUTH SERVICE ROAD, SUITE 100
Address Line 2:	RYAN, MASON & LEWIS, LLP
Address Line 4:	MELVILLE, NEW YORK 11747
ATTORNEY DOCKET NUMBER:	EMC-16-1141
NAME OF SUBMITTER:	JOSEPH B. RYAN
SIGNATURE:	/joseph b. ryan/
DATE SIGNED:	11/17/2017
Total Attachments: 7	

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ASSIGNMENT

WHEREAS, we, Yifan Sun, Layne Peng, Robert A. Lincourt, Jr., John Cardente and Jumping Zhao, 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 **MANAGING ACCESS TO A RESOURCE POOL OF GRAPHICS PROCESSING UNITS UNDER FINE GRAIN CONTROL**, 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 April 14, 2017 as U.S. Application No. 15/487,887;
- was patented under U.S. Patent No. _____ on _____.

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, 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: 13/11/2017

Yifan Sun
Inventor's Signature

Print full name of first inventor:

Yifan Sun

Residence:

Abington, Massachusetts

Citizenship:

China

Mailing Address:

703 Hampton Way

Abington, Massachusetts 02351

I Shi Dong (name) whose residential address is
349 pleasant St. A1-18, Malden, MA, 02148
was personally present and did see Yifan Sun (name of person signing the assignment) who is personally known to me, execute the above assignment.

Shi Dong (signature of first witness)

Signed at 140 TF, Boston, MA (location of witness signature)

on this day 11/13 of 20 17 (date of signature)

I Julia Gutierrez (name) whose residential address is
37 Juniper Street, Roxbury, MA 02119
was personally present and did see Yifan Sun (name of person signing the assignment) who is personally known to me, execute the above assignment.

Julia Gutierrez (signature of second witness)

Signed at 140 TF, Boston, MA (location of witness signature)

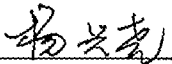
on this day 11/13 of 20 17 (date of signature)

Date: July 25, 2017


Inventor's Signature

Print full name of second inventor: Layne Peng
Residence: Shanghai, China
Citizenship: China
Mailing Address: 5F Building 1, KIC Plaza
No. 252 Songhu Road
Shanghai, China 200433

I Xinyao Yang (name) whose residential address is
5F Building 1, KIC Plaza, No. 252 Songhu Road, Shanghai, China.
was personally present and did see Layne Peng (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at KIC Plaza, No. 252, Songhu Road (location of witness signature)

on this day July 25 of 2017. (date of signature)

I Wenli Wu (name) whose residential address is
5F, Building 1, KIC Plaza, No. 252 Songhu Rd, Shanghai
was personally present and did see Layne Peng (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at KIC Plaza (location of witness signature)

on this day Jul-25 of 2017. (date of signature)

Date: 5/30/2017


Inventor's Signature

Print full name of third inventor: Robert A. Lincourt, Jr.
Residence: Pawtucket, Rhode Island
Citizenship: United States of America
Mailing Address: 161 Brookdale Boulevard
Pawtucket, Rhode Island 02861


I Jeanette M. Thomas (name) whose residential address is
14 Tadarola Avenue Milford MA 01757
was personally present and did see Robert A. Lincourt, Jr. (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 Hopkinton MA (location of witness signature)

on this day May 30th of 2017. (date of signature)

I SUSAN YOUNG (name) whose residential address is
175 HUNTINGHOUSE ROAD, NORTH SCITUATE, RI 02857
was personally present and did see Robert A. Lincourt, Jr. (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, Hopkinton, RI (location of witness signature)

on this day May 30th of 2017. (date of signature)

Date: 5/2/2017

[Signature]
Inventor's Signature

Print full name of fourth inventor: John Cardente
Residence: Milford, Massachusetts
Citizenship: United States of America
Mailing Address: 58 Whitewood Road
Milford, Massachusetts 01757

I Thomas Dahl (name) whose residential address is
20 Old Homestead Road, Westford MA
was personally present and did see John Cardente (name of person signing the assignment) who
is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at Hopkinton MA (location of witness signature)

on this day 31 May of 2017. (date of signature)

I S. Michael Dunbar (name) whose residential address is
15 Carriage Dr. Brimfield, MA 01016
was personally present and did see John Cardente (name of person signing the assignment) who
is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at Hopkinton, MA (location of witness signature)

on this day May 31 of 2017. (date of signature)

Date: 2017.11.17

Zhao Junping
Inventor's Signature

Print full name of fifth inventor: Junping Zhao
Residence: Beijing, China
Citizenship: China
Mailing Address: 8F, Block D, Tsinghua Science Park
One East Zhongguancun Road, Haidian District
Beijing, China 100084

I Wei Cui (name) whose residential address is

Beijing, 100084
was personally present and did see Junping Zhao (name of person signing the assignment) who is personally known to me, execute the above assignment.

Wei Cui (signature of first witness)

Signed at Beijing (location of witness signature)

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

I Guo Fan (name) whose residential address is

Beijing 100084
was personally present and did see Junping Zhao (name of person signing the assignment) who is personally known to me, execute the above assignment.

Guo Fan (signature of second witness)

Signed at Beijing (location of witness signature)

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