

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4692636

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CALEB E. WELTON	05/23/2013
HITOSHI HARADA	05/23/2013
JEFFREY IRA COHEN	05/23/2013
LEI CHANG	05/07/2013
RADHIKA REDDY	06/18/2013
TAO MA	05/07/2013
ZHANWEI WANG	05/07/2013
RECEIVING PARTY DATA	
Name:	EMC CORPORATION
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15714637
CORRESPONDENCE DATA	
Fax Number:	(408)973-2595
<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:	4089732585
Email:	enguyen@ip-patent.com
Correspondent Name:	VAN PELT, YI & JAMES LLP AND EMC IP HOLDING COMPA
Address Line 1:	10050 N. FOOTHILL BLVD.
Address Line 2:	SUITE 200
Address Line 4:	CUPERTINO, CALIFORNIA 95014
ATTORNEY DOCKET NUMBER:	EMCCP472C1
NAME OF SUBMITTER:	DANIEL M SCHNEIDER
SIGNATURE:	/Daniel M. Schneider/
DATE SIGNED:	11/16/2017

PATENT

Total Attachments: 9

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ASSIGNMENT

WHEREAS, we, WELTON, Caleb E.; HARADA, Hitoshi; COHEN, Jeffrey Ira; CHANG, Lei; REDDY, Radhika; MA, Tao; and WANG, Zhanwei 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 PARALLEL PROCESSING DATABASE SYSTEM, 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 March 15, 2013 as U.S. Application No. 13/839,390;
- ☐ was patented under U.S. Patent No. _____ on _____.

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts 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: 5/23/2013

[Signature]
Inventor's Signature

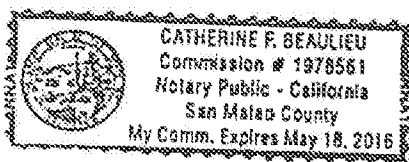
Print full name of first inventor: **Caleb E. WELTON**
Residence: **Foster City, CA 94404**
Citizenship: **USA**
Mailing Address: **744 Edgewater Boulevard - Apt. 301**
Foster City, CA 94404

STATE OF CALIFORNIA
COUNTY OF SAN MATEO

On this 23 day of May, 2013, before me appeared Caleb E. Welton who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



[Signature]
Notary Public
Print Name: CATHERINE F. BEAULIEU
My Commission expires 5/18/16

Date: 5/23/2013

[Signature]
Inventor's Signature

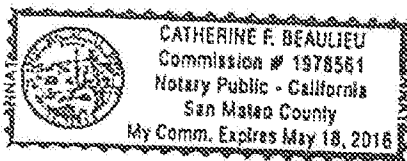
Print full name of second inventor: **Hitoshi HARADA**
Residence: Foster City, CA 94404
Citizenship: Japan
Mailing Address: 16 Commons Lane
Foster City, CA 94404

STATE OF CALIFORNIA
COUNTY OF SAN MATEO

On this 23 day of may, 2013, before me appeared Hitoshi Harada who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

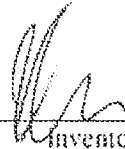
WITNESS my hand and official seal.



Catherine F. Beaulieu
(Notary Public)
Print Name: Catherine F. Beaulieu
My Commission expires 5/18/16

Date:

5/23/2013



Inventor's Signature

Print full name of third inventor:

Jeffrey Ira COHEN

Residence:

Sunnyvale, CA 94086

Citizenship:

USA

Mailing Address:

499 East McKinley Avenue
Sunnyvale, CA 94086

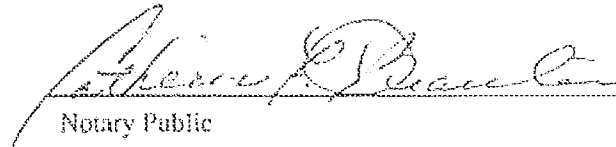
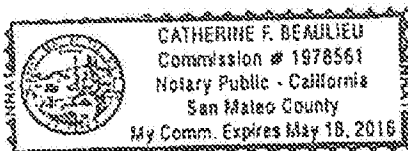
STATE OF
COUNTY OF

California
San Mateo

On this 23 day of May, 2013, before me appeared Jeffrey I Cohen who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Notary Public

Print Name: CATHERINE F. BEAUJEU

My Commission expires 5/18/16

Date: May 7, 2013

Lei CHANG

Inventor's Signature

Print full name of fourth inventor:

Lei CHANG

Residence:

Beijing, CHINA

Citizenship:

China (People's Republic)

Mailing Address:

Room 661, Building 18, MaDianNanCun,
Xicheng District, Beijing, CHINA
100084

I Shengwen Yang (name) whose residential address is

Room 801, Building 7, Jin Dian Hua Yuan, Haidian District, Beijing 100082, China

was personally present and did see Lei Chang (name of person signing the assignment)

who is personally known to me, execute the above assignment.

Shengwen Yang (signature of first witness) Signed at G/F, Block D,

No. 1 Zhongguancun East Road, Beijing, China (location of witness signature) on this day

May. 7 of 2013 (date of signature)

I Jin Wang (name) whose residential address is

No.15, Wangzhuang Road, Haidian District, Beijing, China was personally present and did

see Lei Chang (name of person signing the assignment)

who is personally known to me, execute the above assignment.

Jin Wang (signature of second witness) Signed at G/F, Block

D, No. 1 Zhongguancun East Road, Beijing, China (location of witness signature) on this

day May. 7 of 2013 (date of signature)

Date: 6/16/13

Radhika
Inventor's Signature

Print full name of fifth inventor: Radhika REDDY
Residence: Foster City, CA 94404
Citizenship: USA
Mailing Address: 844 Vega Circle
Foster City, CA 94404

STATE OF
COUNTY OF

California
Santa Clara

On this 18 day of June, 20 13, before me appeared Radhika Reddy
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument
the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Pamela Shore

Notary Public

Print Name: Pamela Shore

My Commission expires 5/14/2017

Date: May 7, 2013

Tao Ma

Inventor's Signature

Print full name of sixth inventor: Tao MA
Residence: Beining, CHINA
Citizenship: China (People's Republic)
Mailing Address: Room 413, 5/F, Unit 4, No. 35,
North 4th Ring Middle Road, Chaoyao District
Beining, CHINA

I Shengwen Yang (name) whose residential address is
Room 801, Building 7, Jin Dian Hua Yuan, Haidian District, Beijing 100082, China
was personally present and did see Tao Ma (name of person signing the assignment)
who is personally known to me, execute the above assignment.
Shengwen Yang (signature of first witness) Signed at G/F, Block D,
No. 1 Zhongguancun East Road, Beijing, China (location of witness signature) on this day
May, 7 of 2013 (date of signature)

I Jin Wang (name) whose residential address is
No.15, Wangzhuang Road, Haidian District, Beijing, China was personally present and did
see Tao Ma (name of person signing the assignment)
who is personally known to me, execute the above assignment.
Jin Wang (signature of second witness) Signed at G/F, Block
D, No. 1 Zhongguancun East Road, Beijing, China (location of witness signature) on this
day May, 7 of 2013 (date of signature)

Date: May 7, 2013

Zhanwei Wang
Inventor's Signature

Print full name of seventh inventor: Zhanwei WANG
Residence: Beijing, CHINA
Citizenship: China (People's Republic)
Mailing Address: Room 10, Unit 2, Building 2, XiWai
Taipingzhuang, Haidian District, Beijing, CHINA

I Shengwen Yang (name) whose residential address is
Room 801, Building 7, Jin Dian Hua Yuan, Haidian District, Beijing 100082, China was
personally present and did see Zhanwei Wang (name of person signing the assignment)
who is personally known to me, execute the above assignment.
Shengwen Yang (signature of first witness) Signed at G/F, Block D,
No. 1 Zhongguancun East Road, Beijing, China (location of witness signature) on this day May 7
of 2013 (date of signature)

I Jin Wang (name) whose residential address is
No.15, Wangzhuang Road, Haidian District, Beijing, China was personally present and did
see Zhanwei Wang (name of person signing the assignment)
who is personally known to me, execute the above assignment.
Jin Wang (signature of second witness) Signed at G/F, Block
D, No. 1 Zhongguancun East Road, Beijing, China (location of witness signature) on this
day May 7 of 2013 (date of signature)