

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Utkarsh VIPUL</td> <td>12/15/2010</td> </tr> <tr> <td>Lorenzo BAILEY</td> <td>12/15/2010</td> </tr> <tr> <td>Ken KIM</td> <td>12/15/2010</td> </tr> <tr> <td>Yong WANG</td> <td>12/15/2010</td> </tr> <tr> <td>Xuan TANG</td> <td>12/15/2010</td> </tr> <tr> <td>Muhamad DJUNAEDI</td> <td>12/16/2010</td> </tr> </tbody> </table>		Name	Execution Date	Utkarsh VIPUL	12/15/2010	Lorenzo BAILEY	12/15/2010	Ken KIM	12/15/2010	Yong WANG	12/15/2010	Xuan TANG	12/15/2010	Muhamad DJUNAEDI	12/16/2010
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Muhamad DJUNAEDI	12/16/2010														
RECEIVING PARTY DATA															
Name:	EMC Corporation														
Street Address:	176 South Street														
City:	Hopkinton														
State/Country:	MASSACHUSETTS														
Postal Code:	01748														
PROPERTY NUMBERS Total: 1															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12969893</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12969893										
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CORRESPONDENCE DATA															
Fax Number:	(508)366-4688														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	5086162900														
Email:	docket@bainwoodhuang.com														
Correspondent Name:	Jeffrey J. Duquette, Esq.														
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Address Line 2:	2 Connector Road														
Address Line 4:	Westborough, MASSACHUSETTS 01581														
ATTORNEY DOCKET NUMBER:	1003-112														

CH \$40.00 12969893

501404831

**PATENT
 REEL: 025630 FRAME: 0687**

NAME OF SUBMITTER:

Jeffrey J. Duquette, Esq.

Total Attachments: 8

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ASSIGNMENT

WHEREAS, we, Utkarsh Vipul, Lorenzo Bailey, Ken Kim, Yong Wang, Xuan Tang and Muhamad Djunaedi 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 **DATA ACCESS LAYER HAVING A MAPPING MODULE FOR TRANSFORMATION OF DATA INTO COMMON INFORMATION MODEL COMPIANT OBJECTS** 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 _____ as U.S. Application No. _____;

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;

AND we hereby authorize our attorneys Bainwood Huang & Associates LLC to insert here in parentheses (12/969,893 December 16, 2010) 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: 12/15/2010

Utkarsh
Inventor's Signature

Print full name of first inventor: Utkarsh Vipul
Residence: 3 Brian Lane, Mansfield, MA, 02048
Citizenship: IN
Mailing Address: Same as above

STATE/COMMONWEALTH OF Massachusetts
COUNTY OF Middlesex

On this 15th day of December, 2010, then personally appeared before me the above-named **Utkarsh Vipul** known to me through satisfactory evidence of identification employee identification card; driver's license; (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Nancy E. Pioro
Notary Public

Print Name: Nancy E. Pioro

My Commission expires 4/27/2012

Date: 12/15/10

Lorenzo Bailey
Inventor's Signature

Print full name of second inventor: Lorenzo Bailey
Residence: 23 Mansfield Street, Framingham, MA,
01702
Citizenship: US
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 15th day of December, 2010, then personally appeared before me the above-named **Lorenzo Bailey** known to me through satisfactory evidence of identification employee identification card; driver's license; (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Nancy E. Pior
Notary Public
Print Name: Nancy E. Pior
My Commission expires 4/27/2012

Date: 12/15/2010


Inventor's Signature

Print full name of third inventor: Ken Kim
Residence: 3 Navajo Road, Worcester, MA, 01606
Citizenship: US
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 15th day of December, 2010, then personally appeared before me the above-named **Ken Kim** known to me through satisfactory evidence of identification employee identification card; driver's license; (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.


Notary Public

Print Name: Nancy E. Piox

My Commission expires 4/27/2012

Date: 12/15/2010

Yong Wang
Inventor's Signature

Print full name of inventor: Yong Wang
Residence: 4 Nauset Drive, Westborough, MA, 01581
Citizenship: US
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 15th day of December, 2010, then personally appeared before me the above-named **Yong Wang** known to me through satisfactory evidence of identification employee identification card; driver's license; (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Nancy E. Pion
Notary Public

Print Name: Nancy E. Pion

My Commission expires 4/27/2012

Date: 12/15/2010

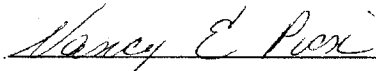


Inventor's Signature

Print full name of fifth inventor: Xuan Tang
Residence: 6 prestwick Drive, Hopkinton, MA 01748
Citizenship: CN
Mailing Address: Same as above

STATE/COMMONWEALTH OF Massachusetts
COUNTY OF Middlesex

On this 15th day of December, 2010, then personally appeared before me the above-named **Xuan Tang** known to me through satisfactory evidence of identification employee identification card; driver's license; (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.



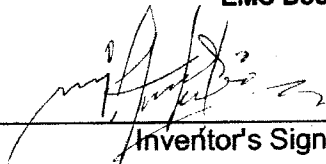
Notary Public

Print Name:

Nancy E. Poir

My Commission expires 4/27/2012

Date: 12/16/2010

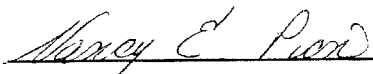


Inventor's Signature

Print full name of sixth inventor: Muhamad Djunaedi
Residence: 15 Washington Road, Northborough, MA
01532
Citizenship: ID
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 16th day of December, 2010, then personally appeared before me the above-named **Muhamad Djunaedi** known to me through satisfactory evidence of identification employee identification card; driver's license; (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.



Notary Public
Print Name: Nancy E. Pion
My Commission expires 4/27/2012