

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Dennis P. Ting	06/27/2011
John A. Hassey	07/05/2011
Robert E. Frazier	07/05/2011
Ramanamurthy Jayanty	07/05/2011
Daphna Nathanson	07/06/2011
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:	13177968
CORRESPONDENCE DATA	
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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Correspondent Name:	Richard C. Auchterlonie
Address Line 1:	1000 Louisiana Street, 53rd Floor
Address Line 2:	Novak Druce & Quigg, LLP
Address Line 4:	Houston, TEXAS 77002
ATTORNEY DOCKET NUMBER:	EMC-10-363
NAME OF SUBMITTER:	Richard C. Auchterlonie

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Total Attachments: 6

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ASSIGNMENT

WHEREAS, we, **Dennis P. Ting, John A. Hassey, Robert E. Frazier, Ramanamurthy Jayanty, and Daphna Nathanson**, 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 **Multi-Tasking Real-Time Kernel Threads Used in Multi-Threaded Network Processing**, 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.

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

Date: 6/27/2011

Dennis P. Ting
Inventor's Signature

Print full name of first inventor: **Dennis P. Ting**
Residence: 31 Acorn Path, Groton, MA 01450
Citizenship: United States
Mailing Address: 31 Acorn Path, Groton, MA 01450

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 27th day of June, 2011, then personally appeared before me the above-named **Dennis P. Ting**, 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. Piron
Notary Public

Print Name:
Nancy E. Piron

My Commission expires 4/27/2012

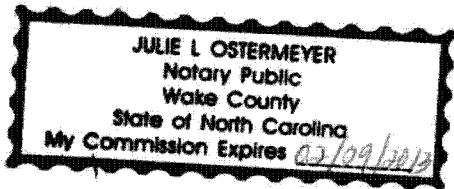
Date: 7/5/2011

John A. Hassey
Inventor's Signature

Print full name of second inventor: **John A. Hassey**
Residence: 5122 Sourwood Rd., Durham, NC 27712
Citizenship: United States
Mailing Address: 5122 Sourwood Rd., Durham, NC 27712

STATE/COMMONWEALTH OF NORTH CAROLINA
COUNTY OF DURHAM

On this 5TH day of JULY, 2011, then personally appeared before me the above-named **John A. Hassey**, 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.



Julie L Ostermeyer
Notary Public

Print Name: JULIE L OSTERMEYER
My Commission expires 02/09/2013

Date:

7/5/2011

Robert E. Frazier
Inventor's Signature

Print full name of third inventor: **Robert E. Frazier**

Residence: 6509 Vintage Ridge Ln., Fuquay-Varina, NC 27526

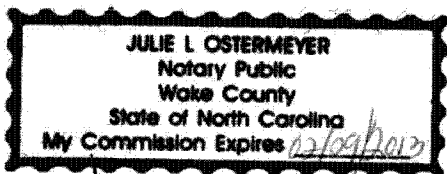
Citizenship: United States

Mailing Address: 6509 Vintage Ridge Ln., Fuquay-Varina, NC 27526

STATE/Commonwealth of
COUNTY OF

NORTH CAROLINA
DURHAM

On this 5TH day of JULY, 2011, then personally appeared before me the above-named **Robert E. Frazier**, 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.

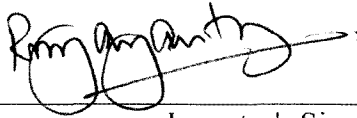


Julie L. Ostermeyer
Notary Public

Print Name: JULIE L. OSTERMEYER

My Commission expires 02/09/2013

Date: 07-05-2011


Inventor's Signature

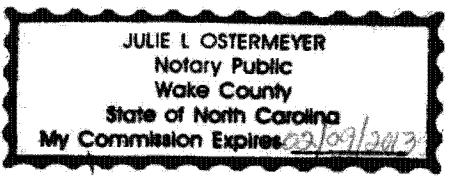
Print full name of fourth inventor: **Ramanamurthy Jayanty**
Residence: 805 Wakehurst Dr., Cary, NC 27519
Citizenship: India
Mailing Address: 805 Wakehurst Dr., Cary, NC 27519

STATE/COMMONWEALTH OF NORTH CAROLINA
COUNTY OF DURHAM

On this 5TH day of JULY, 2011, then personally appeared before me the above-named **Ramanamurthy Jayanty**, 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: JULIE L. OSTERMEYER
My Commission expires 02/09/2013



Date: 7/6/2011

Daphna Nathanson
Inventor's Signature

Print full name of fifth inventor: **Daphna Nathanson**

Residence: 44 Agnes Dr , Framingham, MA 01701

Citizenship: United States

Mailing Address: 44 Agnes Dr , Framingham, MA 01701

STATE/COMMONWEALTH OF Massachusetts
COUNTY OF Middlesex

On this 6th day of July, 2011, then personally appeared before me the above-named **Daphna Nathanson**, 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 1/27/2012