

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Sachin G. Totale</td> <td>06/27/2012</td> </tr> <tr> <td>Rajakumar Thiruvassagam</td> <td>06/27/2012</td> </tr> <tr> <td>Srinivasa Gururao</td> <td>06/27/2012</td> </tr> </tbody> </table>		Name	Execution Date	Sachin G. Totale	06/27/2012	Rajakumar Thiruvassagam	06/27/2012	Srinivasa Gururao	06/27/2012
Name	Execution Date								
Sachin G. Totale	06/27/2012								
Rajakumar Thiruvassagam	06/27/2012								
Srinivasa Gururao	06/27/2012								
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"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13474501</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13474501				
Property Type	Number								
Application Number:	13474501								
CORRESPONDENCE DATA									
Fax Number:	4089732595								
Phone:	408-973-2585								
Email:	egalvan@ip-patent.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	VAN PELT, YI & JAMES LLP								
Address Line 1:	10050 N. FOOTHILL BLVD.								
Address Line 2:	SUITE 200								
Address Line 4:	CUPERTINO, CALIFORNIA 95014								
ATTORNEY DOCKET NUMBER:	EMCCP251								
NAME OF SUBMITTER:	Laura Ing								
Total Attachments: 4 source=EMCCP251 Executed Assignment#page1.tif source=EMCCP251 Executed Assignment#page2.tif source=EMCCP251 Executed Assignment#page3.tif source=EMCCP251 Executed Assignment#page4.tif									

CH \$40.00 13474501



DEPT. OF STAMP & REGISTRATION



INDIA

PATENT Joint Assignment

Attorney Docket No.: KMCCP251

EMC Docket No.: EMC-12-236

STAMP DUTY

KARNATAKA

ASSIGNMENT

Sub-Registrar
Jayanagar, Bangalore City

WHEREAS, we, Sachin G. Totale, Rajakumar Thiruvasagam and Srinivasa Gururao 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 *ACTION FLOW CLIENT FRAMEWORK*, 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 May 17, 2012 as U.S. Application No. 13/474,501;
- 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,



PATENT NOTARY

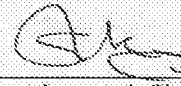
REEL: 028661 FRAME: 0401

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:

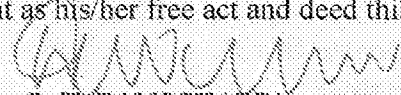
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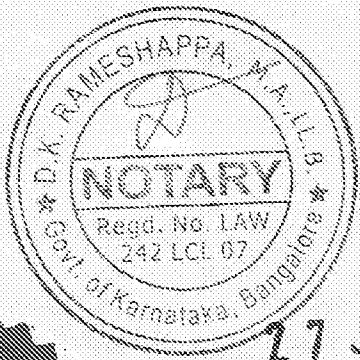

Inventor's Signature

Print full name of first inventor: Sachin G. Totale
Residence: Bangalore
Citizenship: India
Mailing Address: 176 South Street, Hopkinton, Massachusetts
01748

STATE/Commonwealth of KARNATAKA
COUNTY OF INDIA, Bangalore

Then personally appeared before me the above-named SACHIN G. TOTALE and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 27 day of JUNE, 2012.

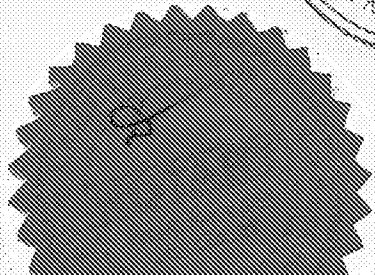
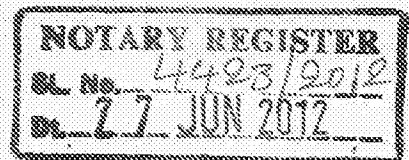

D. K. RAMESHAPPA, N.A., LL.B.



Notary Public No. 23, 12th Main, 4th Block East
Print Name: Jayanagar, BANGALORE - 560 011.

My Commission expires My Term Expires on 23-12-2012
No. LAW 242 LCL 07
D. K. RAMESHAPPA
NOTARY PUBLIC

27 JUN 2012



Date: 27/JUNE/2012

[Signature]
Inventor's Signature

Print full name of second inventor: Rajakumar Thiruvassagam
Residence: Bangalore
Citizenship: India
Mailing Address: 176 South Street, Hopkinton, Massachusetts
01748

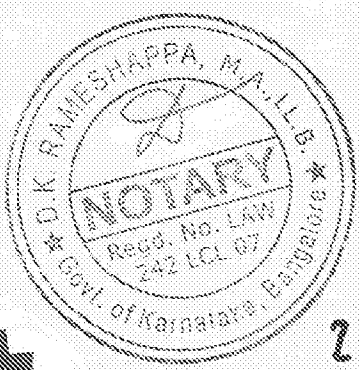
STATE/Commonwealth of KARNATAKA
COUNTY OF INDIA / Bangalore

Then personally appeared before me the above-named RAJAKUMAR T and
acknowledged that he/she executed the foregoing instrument as his/her free act and deed this
27 day of JUNE, 2012.

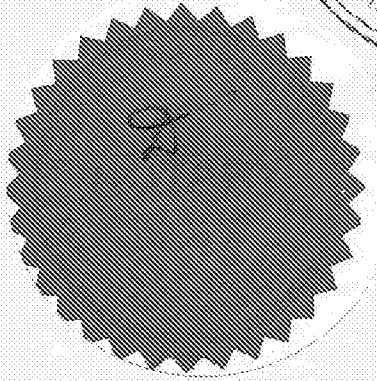
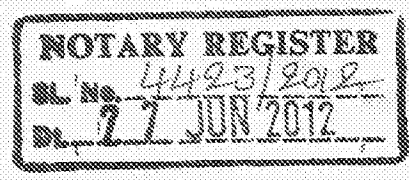
[Signature]
D. K. RAMESHAPPA, N.A.,LL.B.

Notary Public Advocate & Notary
No. 23, 12th Main, 4th Block East
Print Name: Jayanagar, BANGALORE - 560 011.

My Commission expires My Term Expires on 23-12-2012
No. LAW 242 LCL 07
D. K. RAMESHAPPA
NOTARY PUBLIC



27 JUN 2012



Date: 27 June 2012

[Signature]
Inventor's Signature

Print full name of third inventor: Srinivasa Gururao
Residence: Bangalore
Citizenship: India
Mailing Address: 176 South Street, Hopkinton, Massachusetts
01748

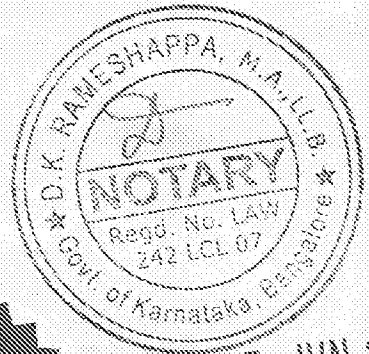
STATE/Commonwealth of KARNATAKA
COUNTY OF INDIA, Bangalore

Then personally appeared before me the above-named SRINIVASA G. and
acknowledged that he/she executed the foregoing instrument as his/her free act and deed this
27 day of JUNE, 2012.

[Signature]
D. K. RAMESHAPPA, M.A., I.L.B.

Notary Public Advocate & Notary
No. 23, 12th Main, 4th Block East
Print Name: Jaynagar, BANGALORE - 560 011

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