

PATENT ASSIGNMENT COVER SHEET

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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>RAMKUMAR GANESAN</td> <td>12/19/2013</td> </tr> <tr> <td>SACHIN G. TOTALE</td> <td>12/20/2013</td> </tr> <tr> <td>MARWAN SULIMAN</td> <td>12/19/2013</td> </tr> <tr> <td>VENUGOPAL PARAMALA</td> <td>12/20/2013</td> </tr> </tbody> </table>		Name	Execution Date	RAMKUMAR GANESAN	12/19/2013	SACHIN G. TOTALE	12/20/2013	MARWAN SULIMAN	12/19/2013	VENUGOPAL PARAMALA	12/20/2013
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RAMKUMAR GANESAN	12/19/2013										
SACHIN G. TOTALE	12/20/2013										
MARWAN SULIMAN	12/19/2013										
VENUGOPAL PARAMALA	12/20/2013										
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>14136316</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14136316						
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Application Number:	14136316										
CORRESPONDENCE DATA											
Fax Number:	(408)973-2595										
Phone:	4089732585										
Email:	enguyen@ip-patent.com										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	VAN PELT, YI & JAMES LLP AND EMC CORPORA										
Address Line 1:	10050 N. FOOTHILL BLVD.										
Address Line 2:	SUITE 200										
Address Line 4:	CUPERTINO, CALIFORNIA 95014										
ATTORNEY DOCKET NUMBER:	EMCCP403										
NAME OF SUBMITTER:	WILLIAM J. JAMES										

Signature:	/william j. james/
Date:	12/20/2013
Total Attachments: 6 source=EMCCP403 Executed Assignment#page1.tif source=EMCCP403 Executed Assignment#page2.tif source=EMCCP403 Executed Assignment#page3.tif source=EMCCP403 Executed Assignment#page4.tif source=EMCCP403 Executed Assignment#page5.tif source=EMCCP403 Executed Assignment#page6.tif	

ASSIGNMENT

WHEREAS, we, Ramkumar Ganesan, Sachin G. Totale, Marwan Suliman, and Venugopal Paramala 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 *COMPOSABLE ACTION FLOWS*, 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,

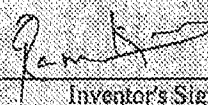
PATENT/Joint Assignment
Attorney Docket No.: EMCCP403
EMC Docket No.: EMC-13-1088

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:

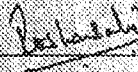
Date: 19-Dec-2013



Inventor's Signature

Print full name of first inventor: Ramkumar Ganesan
Residence: Bangalore, India
Citizenship: India
Mailing Address: 176 South Street
Hopkinton, MA 01748

I RASHAN SALVI (name) whose residential address is #202, 2nd Bldg Sunclay App, Mr Sarjapur Signal BLE-560102
was personally present and did see Ramkumar Ganesan (name of person signing
the assignment) who is personally known to me, execute the above assignment.



(signature of first witness)

Signed at BANGALORE (location of witness signature)

on this day 19th DEC of 20 13 (date of signature)

I NAVEEN K.V. (name) whose residential address is 283/A, 4th Block, 9th Main, R.P. Nagar, BANGALORE-56
was personally present and did see Ramkumar Ganesan (name of person signing
the assignment) who is personally known to me, execute the above assignment.



(signature of second witness)

Signed at BANGALORE (location of witness signature)

on this day 19-DEC- of 20 13 (date of signature)

Date: Dec 20 2013

[Signature]
Inventor's Signature

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

I NAVEEN K.V. (name) whose residential address is
283/A, 4th B CROSS, 9th MIND, RPL LAYOUT, BANGALORE - 40
was personally present and did see SACHIN G. TOTALE (name of person signing
the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at BANGALORE (location of witness signature)

on this day 20 - DEC of 2013. (date of signature)

I VIKAS D KULKARNI (name) whose residential address is
#304, 1st floor, 10th main junction, INDIRAPUR 2nd stage, Bangalore - 48
was personally present and did see SACHIN G. TOTALE (name of person signing
the assignment) who is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at BANGALORE (location of witness signature)

on this day 20 - DEC - 2013 of 2013. (date of signature)

Date: 12/19/2013

M Suliman

Inventor's Signature

Print full name of third inventor: **Marwan Suliman**
Residence: Dublin, CA
Citizenship: Sudan
Mailing Address: 176 South Street
Hopkinton, MA 01748

STATE OF California
COUNTY OF Alameda

On this 19th day of December, 2013, before me appeared Marwan Suliman 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.

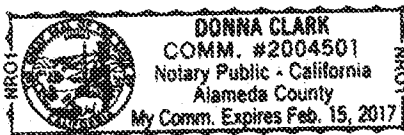
WITNESS my hand and official seal.

Donna Clark

Notary Public

Print Name: Donna Clark

My Commission expires 2/15/17



Date: 20/12/2013

P. Venugopal
Inventor's Signature

Print full name of fourth inventor: Venugopal Paramala
Residence: Bangalore, India
Citizenship: India
Mailing Address: 176 South Street
Hopkinton, MA 01748

I M. MOHAMED TAJ (name) whose residential address is
SITE NO. 11A, 2ND CROSS, SHANTHI LAYOUT, R.M. NAGAR, BANGALORE-16
was personally present and did see VENUGOPAL PARAMALA (name of person signing
the assignment) who is personally known to me, execute the above assignment.

M. Mohamed Taj (signature of first witness)

Signed at BANGALORE (location of witness signature)

on this day 20th DECEMBER of 2013. (date of signature)

I SHOBHA RAVI (name) whose residential address is
56, 1st CROSS, SHARADA COLONY, BASAVESHWARNAGAR, BANGALORE-79
was personally present and did see VENUGOPAL PARAMALA (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Shobha Ravi (signature of second witness)

Signed at BANGALORE (location of witness signature)

on this day 20th DEC of 2013. (date of signature)