

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>GURURAJ KULKARNI</td> <td>01/31/2014</td> </tr> <tr> <td>VLADIMIR MANDIC</td> <td>02/11/2014</td> </tr> </tbody> </table>		Name	Execution Date	GURURAJ KULKARNI	01/31/2014	VLADIMIR MANDIC	02/11/2014
Name	Execution Date						
GURURAJ KULKARNI	01/31/2014						
VLADIMIR MANDIC	02/11/2014						
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>14137774</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14137774		
Property Type	Number						
Application Number:	14137774						
CORRESPONDENCE DATA							
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
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Address Line 4:	CUPERTINO, CALIFORNIA 95014						
ATTORNEY DOCKET NUMBER:	EMCCP387						
NAME OF SUBMITTER:	TERRENCE L. WONG						
Signature:	/Terrence L. Wong/						
Date:	02/19/2014						

PATENT

Total Attachments: 4

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ASSIGNMENT

WHEREAS, we, Gururaj Kulkarni and Vladimir Mandic 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 ***SYSTEM AND METHOD FOR SMART FRAMEWORK FOR NETWORK BACKUP SOFTWARE DEBUGGING***, 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 December 20, 2013 as U.S. Application No. 14/137,774;
- 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;

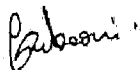
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, 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: 31-JAN-2014



Inventor's Signature

Print full name of first inventor:

Gururaj Kulkarni

Residence:

Bangalore, India

Citizenship:

India

Mailing Address:

176 South Street
Hopkinton, MA 01748

I RAVI KUMAR MADHAPPAN (name) whose residential address is
211, 1ST FLOOR, LRDS LAYOUT, KARTHIK NAGAR, MARATHALLI, BANGALORE - 560037
was personally present and did see GURURAJ KULKARNI (name of person signing
the assignment) who is personally known to me, execute the above assignment.

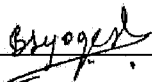


(signature of first witness)

Signed at Bangalore (location of witness signature)

on this day 31ST JAN of 2014. (date of signature)

I Yogesh B.S. (name) whose residential address is
01/EE2 Annam Residences, 10th Cross Garden Villas Nayanabharvi,
was personally present and did see Gururaj Kulkarni (name of person signing Bangalore - 72
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 31ST Jan of 2014. (date of signature)

Date: 02/11/2014


Inventor's Signature

Print full name of second inventor:

Vladimir ~~Vladimir~~ Mandic

Residence:

San Jose, CA

Citizenship:

Croatia

Mailing Address:

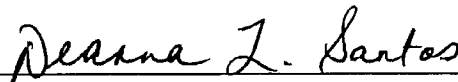
176 South Street
Hopkinton, MA 01748

STATE OF CA
COUNTY OF Santa Clara

On this 11 day of February, 2014, before me appeared Vladimir Mandic 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: Deanna L. Santos

My Commission expires 8/21/2016

