

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2745039

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>EMIL P. STEFANOV</td> <td>09/26/2011</td> </tr> <tr> <td>MARTEN E. VAN DIJK</td> <td>09/23/2011</td> </tr> <tr> <td>ALINA M. OPREA</td> <td>09/22/2011</td> </tr> </tbody> </table>		Name	Execution Date	EMIL P. STEFANOV	09/26/2011	MARTEN E. VAN DIJK	09/23/2011	ALINA M. OPREA	09/22/2011
Name	Execution Date								
EMIL P. STEFANOV	09/26/2011								
MARTEN E. VAN DIJK	09/23/2011								
ALINA M. OPREA	09/22/2011								
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>13174452</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13174452				
Property Type	Number								
Application Number:	13174452								
CORRESPONDENCE DATA									
Fax Number:									
Phone:	508-435-1000								
Email:	docketing@emc.com								
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>									
Correspondent Name:	EMC CORPORATION								
Address Line 1:	176 SOUTH STREET								
Address Line 4:	HOPKINTON, MASSACHUSETTS 01748								
ATTORNEY DOCKET NUMBER:	EMC-10-236								
NAME OF SUBMITTER:	GERALD P. KAZANJIAN								
Signature:	/Gerald P. Kazanjian/								
Date:	02/27/2014								

PATENT

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 7

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ASSIGNMENT

WHEREAS, we, Emil P. Stefanov, Marten E. Van Dijk, Alina M. Oprea and Ari Juels 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 *SCALABLE CLOUD FILE SYSTEM WITH EFFICIENT INTEGRITY CHECKS*, 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 June 30, 2011 as U.S. Application No. 13/174,452;
- 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, EMC Corporation, to insert here in parentheses () 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: 09/26/2011

Emil P. Stefanov
Inventor's Signature

Print full name of first inventor:

Emil P. Stefanov

Residence:

2255 Hearst Avenue, Apt. 32, Berkeley, CA
94709

Citizenship:

US

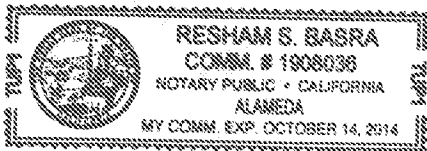
Mailing Address:

Same as above

STATE/Commonwealth of CA
COUNTY OF Alameda

On this 26th day of Sep., 2011, then personally appeared before me the above-named Emil P. Stefanov known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other)

Resham Singh Basra 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.



Resham Singh Basra
Notary Public

Print Name: RESHAM SINGH BASRA

My Commission expires 10/14/2014

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of Alameda

On Sep. 26.11 before me, Resham Singh Basra (NOTARY PUBLIC)
(Here insert name and title of the officer)

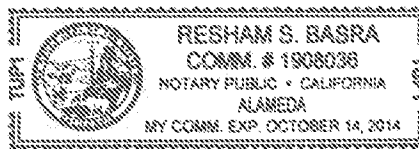
personally appeared EMIL PLAMENOV STEFANOV

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/het/their authorized capacity(ies), and that by his/het/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.

Resham Singh Basra
Signature of Notary Public



(Notary Seal)

ADDITIONAL OPTIONAL INFORMATION

INSTRUCTIONS FOR COMPLETING THIS FORM

Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgment form must be properly completed and attached to that document. The only exception is if a document is to be recorded outside of California. In such instances, any alternative acknowledgment verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. he/she/they- is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document

DESCRIPTION OF THE ATTACHED DOCUMENT

Assignment

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date 9.26.11

(Additional information)


CAPACITY CLAIMED BY THE SIGNER

- Individual (s)
 Corporate Officer

(Title)

- Partner(s)
 Attorney-in-Fact
 Trustee(s)
 Other _____


Date: September 23, 2011


Inventor's Signature

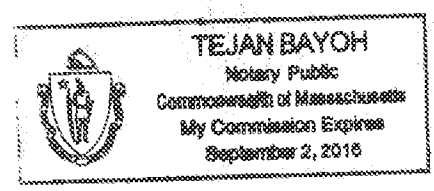
Print full name of second inventor: **Marten E. Van Dijk**
Residence: 19 Trull Street, #2, Somerville, MA 02145
Citizenship: NL
Mailing Address: Same as above

STATE/Commonwealth of MASSACHUSETTS
COUNTY OF MIDDLESEX

On this 23rd day of SEPTEMBER, 2011, then personally appeared before me the above-named Marten E. Van Dijk known to me through satisfactory evidence of identification employee identification card; driver's license; (other) MA DRIVER'S LICENSE 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: TEJAN BAYOH
My Commission expires 9/2/2016



Date: 08/22/2011

[Signature]
Inventor's Signature


Print full name of third inventor: Alina M. Oprea
Residence: 104 Cutter Hill Road, Arlington, MA 02474
Citizenship: RO
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 22nd day of September, 2011, then personally appeared before me the above-named Alina M. Oprea known to me through satisfactory evidence of identification [] employee identification card; [x] 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.

[Signature]
Notary Public

Print Name: Heather Rabinovitz
My Commission expires 9/29/17

 **HEATHER RABINOVITZ**
Notary Public
Commonwealth of Massachusetts
My Commission Exp. 9/29/17

Date: _____

Inventor's Signature

Print full name of third inventor: **Ari Juels**
Residence: 55 Station Street, 3B, Brookline, MA 02445
Citizenship: US
Mailing Address: Same as above

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 2011, then personally appeared before me the above-named Ari Juels 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: _____

My Commission expires ____ / ____ / ____