

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4107707

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KEDAR PATWARDHAN	10/20/2016
ARASH SEPASI AHOEI	10/20/2016
MATHEW SPREHN	10/20/2016
RECEIVING PARTY DATA	
Name:	EMC IP HOLDING COMPANY LLC
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15283550
CORRESPONDENCE DATA	
Fax Number:	(415)705-6383
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	(415) 705-6377
Email:	tnoah@dergnoah.com
Correspondent Name:	DERGOSITS & NOAH LLP
Address Line 1:	ONE EMBARCADERO CENTER
Address Line 2:	SUITE 350
Address Line 4:	SAN FRANCISCO, CALIFORNIA 94111
ATTORNEY DOCKET NUMBER:	965-15-0992
NAME OF SUBMITTER:	AIMEE MAJDOUB
SIGNATURE:	/Aimee Majdoub/
DATE SIGNED:	10/21/2016
Total Attachments: 7	
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ASSIGNMENT

WHEREAS, we, Kedar Patwardhan, Arash Sepasi Ahoei and Mathew Sprehn 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 DE-DUPLICATING BACKUP FILES BASED ON DATA EVOLUTION, 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 October 3, 2016 as U.S. Application No. 15/283,550;
- was patented under U.S. Patent No. _____ on _____.

WHEREAS, EMC IP Holding Company LLC (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Delaware 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;

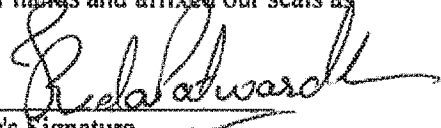
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, 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: 20th Oct 2016

By: 
Inventor's Signature

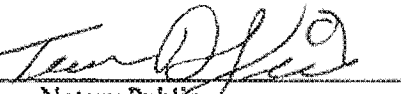
Print full name of first inventor: Kedar Patwardhan
Residence: 762 Oak Glen
Irvine, CA 92818
Citizenship: India
Mailing Address: Same as above

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20____, before me _____, Notary Public, personally appeared _____ 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.

By: 
Notary Public

SEE CALIFORNIA
ACKNOWLEDGMENT
DATE 10/20/16 INTL 

Print Name: Teresa D. Lewis

My Commission expires 10/03/2018

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Orange

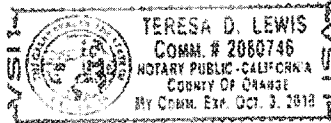
On October 20, 2016 before me, Teresa D. Lewis, Notary Public
(Insert name and title of the officer)

personally appeared Kedar Patwardhan,
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.

Signature  (Seal)



Date: 10/20/2016

By: [Signature]
Inventor's Signature

Print full name of second inventor: Arash Sepasi Ahoei
Residence: 14232 Mendocino Ave.
Irvine, CA 92606
Citizenship: United States of America
Mailing Address: Same as above

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20____, before me _____,
Notary Public, personally appeared _____ 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.

By: [Signature]
Notary Public

SEE CALIFORNIA
ACKNOWLEDGMENT
DATE 10/20/16 INTL [Signature]

Print Name: Teresa D. Lewis
My Commission expires 10/03/2018

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Orange)

On October 20, 2016 before me, Teresa D. Lewis, Notary Public
(insert name and title of the officer)

personally appeared Arash Sepasi Ahoei
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.

Signature *Teresa D. Lewis* (Seal)



Date: 10/20/16

By: 
Inventor's Signature

Print full name of third inventor:

Mathew Sprehn

Residence:

231 Pinestone
Irvine, CA 92604

Citizenship:

United States of America

Mailing Address:

Same as above

STATE OF _____

COUNTY OF _____

On this _____ day of _____, 20____, before me _____,
Notary Public, personally appeared _____ 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.

By: 
Notary Public

SEE CALIFORNIA
ACKNOWLEDGMENT
DATE 10/20/16 INTL TDL

Print Name: Teresa D. Lewis

My Commission expires 10/03/2018

ACKNOWLEDGMENT

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State of California
County of Orange)

On October 20, 2016 before me, Teresa D. Lewis, Notary Public
(insert name and title of the officer)

personally appeared Mathew Sprehn
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.

Signature Teresa D. Lewis (Seal)

