

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5269447

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RADIA J. PERLMAN	12/05/2018
CHARLES KAUFMAN	12/05/2018
XUAN TANG	12/06/2018
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:	16208790
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NAME OF SUBMITTER:	JOSEPH B. RYAN
SIGNATURE:	/joseph b. ryan/
DATE SIGNED:	12/06/2018
Total Attachments: 5	
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ASSIGNMENT

WHEREAS, we, Radia J. Perlman, Charles Kaufman and Xuan Tang, 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 **CLIENT-SIDE ENCRYPTION SUPPORTING DEDUPLICATION ACROSS SINGLE OR MULTIPLE TENANTS IN A STORAGE SYSTEM** the specification of which:

☒ [X] 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 IP Holding Company LLC (hereinafter "ASSIGNEE"), a limited liability company organized and existing under the laws of the State 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;

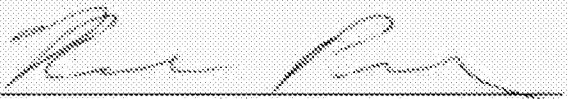
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, 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: 12/5/2019


Inventor's Signature

Print full name of first inventor: Radia J. Perlman
Residence: Redmond, Washington
Citizenship: United States of America
Mailing Address: 2872 West Lake Sammamish Parkway NE
Redmond, Washington 98052

I Carol Kuhn (name) whose residential address is

2868 W Lk Sammamish Pkwy NE Redmond WA
was personally present and did see Radia J. Perlman (name of person signing the assignment)
who is personally known to me, execute the above assignment.

Carol Kuhn (signature of first witness)

Signed at Redmond WA (location of witness signature)

on this day December 5th of 2018. (date of signature)

I John Kuhl (name) whose residential address is

2868 W Lk Sammamish Pkwy NE Redmond, WA
was personally present and did see Radia J. Perlman (name of person signing the assignment)
who is personally known to me, execute the above assignment.

John Kuhl (signature of second witness)

Signed at Redmond, WA (location of witness signature)

on this day December 5th of 2018. (date of signature)

Date: 12/5/2018

Charles W. Kaufman
Inventor's Signature

Print full name of second inventor:

Charles Kaufman

Residence:

Redmond, Washington

Citizenship:

United States of America

Mailing Address:

2872 West Lake Sammamish Parkway NE
Redmond, Washington 98052

1 John Kuhn

(name) whose residential address is

2868 W Lake Sammamish Pkwy NE Redmond, WA

was personally present and did see Charles Kaufman (name of person signing the assignment)
who is personally known to me, execute the above assignment.

John Kuhn (signature of first witness)

Signed at Redmond, WA (location of witness signature)

on this day December 5TH of 2018 (date of signature)

1 Carol Kuhn

(name) whose residential address is

2868 W Lake Sammamish Pkwy NE Redmond WA

was personally present and did see Charles Kaufman (name of person signing the assignment)
who is personally known to me, execute the above assignment.


Carol Kuhn (signature of second witness)

Signed at Redmond WA (location of witness signature)

on this day December 5TH of 2018 (date of signature)

Date:

12/6/2018


Inventor's Signature

Print full name of third inventor:

Xuan Tang

Residence:

Hopkinton, Massachusetts

Citizenship:

United States of America

Mailing Address:

6 Prestwick Drive

Hopkinton, Massachusetts 01748

I Marion Meirlaen (name) whose residential address is

27 Harmony Drive Millville MA 01529

was personally present and did see Xuan Tang (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)


Signed at 228 South St Hopkinton MA (location of witness signature)

on this day Dec 6 of 2018. (date of signature)

I KEVIN BARRETT (name) whose residential address is

69 THORNSIDGE LANE SHREWSBURY, MA 01545

was personally present and did see Xuan Tang (name of person signing the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at 228 SOUTH ST. HOPKINTON, MA (location of witness signature)

on this day DEC 6 of 2018. (date of signature)