

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4592468

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MARK A. O'CONNELL	08/22/2017
STEPHEN TODD	08/18/2017
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:	15669499
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NAME OF SUBMITTER:	WILLIAM E. LEWIS
SIGNATURE:	/william e. lewis/
DATE SIGNED:	09/13/2017
Total Attachments: 4	
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ASSIGNMENT

WHEREAS, we, Mark A. O'Connell and Stephen Todd, 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 **DECENTRALIZED COMPUTING RESOURCE MANAGEMENT USING DISTRIBUTED LEDGER**, 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 August 4, 2017 as U.S. Application No. 15/669,499;
- ☐ 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:

Aug 22, 2017

Mark O'Connell

Inventor's Signature

Print full name of first inventor:

Mark A. O'Connell

Residence:

Westborough, Massachusetts

Citizenship:

United States of America

Mailing Address:

68 South Street

Westborough, Massachusetts 01581

I

Molly Zeck

(name) whose residential address is

19092 Grail Rd Doylestown, OH 44230

was personally present and did see Mark A. O'Connell (name of person signing the assignment) who is personally known to me, execute the above assignment.

Molly A Zeck

(signature of first witness)

Signed at

Westborough, MA

(location of witness signature)

on this day

August 22

of 2017 (date of signature)

I

Karen Yeowell

(name) whose residential address is

68 South St Westborough MA 01581

was personally present and did see Mark A. O'Connell (name of person signing the assignment) who is personally known to me, execute the above assignment.

Karen Yeowell

(signature of second witness)

Signed at

Westborough, MA

(location of witness signature)

on this day

22 Aug

of 2017 (date of signature)

Date: August 18 2017

Stephen Todd
Inventor's Signature

Print full name of second inventor: Stephen Todd
Residence: Shrewsbury, Massachusetts
Citizenship: United States of America
Mailing Address: 36 Thomas Farm Circle
Shrewsbury, Massachusetts 01545

I Jeanette Thomas (name) whose residential address is

14 Tadarola Ave. Milford MA 01757
was personally present and did see Stephen Todd (name of person signing the assignment) who is personally known to me, execute the above assignment.

Jeanette Thomas (signature of first witness)

Signed at Dell EMC, Hopkinton, MA (location of witness signature)

on this day 18th of August of 20 17. (date of signature)

I Erin W. Bowdoin (name) whose residential address is

3 Hawthorne Ln Bedford MA 01730
was personally present and did see Stephen Todd (name of person signing the assignment) who is personally known to me, execute the above assignment.

Erin W. Bowdoin (signature of second witness)

Signed at Dell EMC Hopkinton MA (location of witness signature)

on this day 23 Aug of 20 17. (date of signature)