

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6113434

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MARK RANGER	05/18/2020
MICHAEL FRANK	05/17/2020
DAVID T LEIMBACH	05/15/2020
RAYMOND RAMSDEN	05/19/2020
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:	16878062
CORRESPONDENCE DATA	
Fax Number:	(216)696-8731
<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:	216-696-8730
Email:	epas@thepatentattorneys.com
Correspondent Name:	AMIN, TUROCY & WATSON, LLP
Address Line 1:	200 PARK AVENUE
Address Line 2:	SUITE 300
Address Line 4:	BEACHWOOD, OHIO 44122
ATTORNEY DOCKET NUMBER:	119665.01/DELLP376US
NAME OF SUBMITTER:	RICHARD BRADLEY ALMON
SIGNATURE:	/Richard Bradley Almon/
DATE SIGNED:	05/19/2020
Total Attachments: 6	
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ASSIGNMENT

WHEREAS, we, Mark Ranger, Michael Frank, David T Leimbach, and Raymond Ramsden 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 MAINTAINING COMPONENTS OF NETWORKED NODES WITH DISTRIBUTED DATA DEPENDENCIES, 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 _____ as U.S. Application No. _____;

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 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;

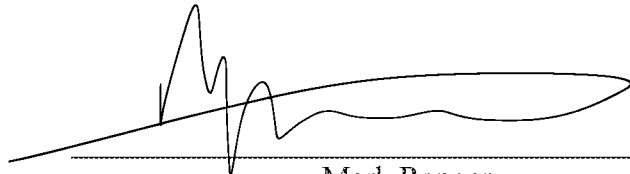
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, 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: **May 18, 2020**



Mark Ranger

Print full name of first inventor: **Mark Ranger**
Residence: Seattle, Washington, United States of America
Citizenship: United States of America
Mailing Address: 3905 4th Ave NE, Apt 301
Seattle, Washington 98105

I _____ (name) whose residential address is _____
was personally present and did see _____ (name of person signing
the assignment) who is personally known to me, execute the above assignment.

_____ (signature of first witness)

Signed at _____ (location of witness signature)

on this day _____ of 20 _____. (date of signature)

I _____ (name) whose residential address is _____
was personally present and did see _____ (name of person signing
the assignment) who is personally known to me, execute the above assignment.

_____ (signature of second witness)

Signed at _____ (location of witness signature)

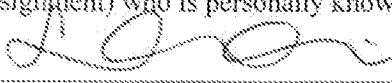
on this day _____ of 20 _____. (date of signature)

Date: 17 May 2020


Michael Frank

Print full name of second inventor: **Michael Frank**
Residence: Seattle, Washington, United States of America
Citizenship: United States of America
Mailing Address: 114 Nw 74th Street
Seattle, Washington 98117

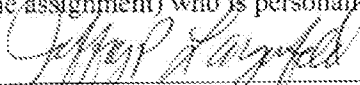
I Sarah Choi (name) whose residential address is
588 Bell St. #3404E, Seattle, WA 98121
was personally present and did see Michael Frank (name of person signing
the assignment) who is personally known to me, execute the above assignment.


(signature of first witness)

Signed at Seattle, WA (location of witness signature)

on this day 17 May of 2020 (date of signature)


I Jeffrey P. Langefeld (name) whose residential address is
111 Terry Ave N #3207 Seattle, WA 98109
was personally present and did see Michael Frank (name of person signing
the assignment) who is personally known to me, execute the above assignment.


(signature of second witness)

Signed at Seattle, WA (location of witness signature)

on this day 17 May of 2020 (date of signature)

Date: May 15, 2020



David T Leimbach

Print full name of third inventor: **David T Leimbach**
Residence: Lynnwood, Washington, United States of America
Citizenship: United States of America
Mailing Address: 2018 142nd Pl Sw
Lynnwood, Washington 98087

I _____ (name) whose residential address is _____
was personally present and did see _____ (name of person signing
the assignment) who is personally known to me, execute the above assignment.

_____ (signature of first witness)

Signed at _____ (location of witness signature)

on this day _____ of 20____. (date of signature)

I _____ (name) whose residential address is _____
was personally present and did see _____ (name of person signing
the assignment) who is personally known to me, execute the above assignment.

_____ (signature of second witness)

Signed at _____ (location of witness signature)

on this day _____ of 20____. (date of signature)

Date: 5/19/2020


Raymond Ramsden

Print full name of fourth inventor: **Raymond Ramsden**
Residence: **Seattle, Washington, United States of America**
Citizenship: **United States of America**
Mailing Address: **111 N. 59th Street
Seattle, Washington 98117**

I _____ (name) whose residential address is _____
was personally present and did see _____ (name of person signing
the assignment) who is personally known to me, execute the above assignment.

(signature of first witness)
Signed at _____ (location of witness signature)
on this day _____ of 20____ (date of signature)

I _____ (name) whose residential address is _____
was personally present and did see _____ (name of person signing
the assignment) who is personally known to me, execute the above assignment.

(signature of second witness)
Signed at _____ (location of witness signature)
on this day _____ of 20____ (date of signature)