504343363 04/28/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
EVGENY POPOVICH	04/27/2017
MAX LAIER	04/27/2017
EDWARD CANDE	04/27/2017

RECEIVING PARTY DATA

Name:	EMC IP HOLDING COMPANY
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15581370

CORRESPONDENCE DATA

Fax Number:

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.

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Correspondent Name: DEANNA SANTOS EMC IP HOLDING COMPANY LLC

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ATTORNEY DOCKET NUMBER:	EMC-16-1170
NAME OF SUBMITTER:	SEAN M. EVANS
SIGNATURE:	/Sean M. Evans/
DATE SIGNED:	04/28/2017

Total Attachments: 5

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PATENT 504343363 REEL: 042177 FRAME: 0164

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PATENT/Joint Assignment EMC Docket No.: EMC-16-1170

ASSIGNMENT

WHEREAS, we, Evgeny POPOVICH, Max LAIER, and Edward CANDE 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 <u>A PERSISTENT</u> <u>CACHE LAYER TO TIER DATA TO CLOUD STORAGE</u>, the specification of which:

[X]	is being executed on even date herewith and is about to be filed in the Unite States Patent Office;	
[]	was filed on	as U.S. Application No;
[]	was patented under U.S. Patent N	o

WHEREAS, EMC IP Holding Company (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

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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: 4/27/2017	Mexed
	Inventor's Signature
Print full name of first inventor:	Evgeny POPOVICH
Residence:	Vancouver, British Columbia, Canada
Citizenship:	Israel
Mailing Address:	442 15th Avenue West,
	Vancouver, BC V5Y1Y4
	CANADA
	ignature of first witness) location of witness signature)
was personally present and did see Every the assignment) who is personally known to a signed at	name of person signing
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Date: <u>U127/2017</u>	- Longley
	Inventor's Signature
Print full name of second inventor:	Max LAIER
Residence:	Seattle, WA
Citizenship:	Germany
Mailing Address:	1100 27th Ave.
	Seattle, WA 98122
I LICY LUD 3733 14944 AC was personally present and did see M the assignment) who is personally kno	(name) whose residential address is Seleve 1478
Lan Dan	(signature of first witness)
Signed at Sentle	(location of witness signature)
on this day <u>4/27</u>	of 20 (date of signature)
1 <u>Decalas Kilperries</u> 4408 2378 Au Swisse	(name) whose residential address is
was personally present and did see	Max Lara (name of person signing
the assignment) who is personally kno	wn to me, execute the above assignment.
	(signature of second witness)
Signed at <u>50a746</u>	(location of witness signature)
on this day ^{cf} / z ?	of 20 17. (date of signature)

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Date: 4/27/2017	2020
	Inventor's Signature
Print full name of third inventor:	Edward CANDE
Residence:	Bedford, NH
Citizenship:	USA
Mailing Address:	103 Cambridge Road
	Bedford, NH 03110
1 LARRENCE YETTO	(name) whose residential address is
was personally present and did see <u>C</u> e	+ must be come / by
the assignment) who is personally known	
	*
	(signature of first witness)
Signed at Mashua NT	(location of witness signature)
on this day April 27	
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- Mitchell Canduli	≦_(namę) µhosę rezideptjal address is
47 Ortole Prival	- Bed Ara NH 03110
was personally present and did see	Z Cade (name of person signing
the assignment) who is personally known to me, execute the above assignment.	
INTUAL GOOGLE	(signature of second witness)
a) 1 " a) L.L.	
41 40 5 4	(location of witness signature)
on this day <u>1900 197</u>	of 20 <u>17</u> (date of signature)
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