PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEAN-PIERRE BONO	05/22/2018
SUDHIR SRINIVASAN	05/25/2018
MARC A DE SOUTER	06/03/2018

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:	15971610

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: HOLLAND & KNIGHT LLP
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ATTORNEY DOCKET NUMBER: 113454.00315/111178.01		
NAME OF SUBMITTER:	TIMOTHY PENG	
SIGNATURE:	/Timothy Peng/	
DATE SIGNED:	06/04/2018	

Total Attachments: 5

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PATENT REEL: 045972 FRAME: 0276

PATENT/Joint Assignment Docket No.: 113454.00315/111178.01

ASSIGNMENT

WHEREAS, we, <u>Jean-Pierre Bono</u>, <u>Sudhir Srinivasan</u> and <u>Marc A. De Souter</u>, 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>Storage</u>
<u>Management System and Method</u> (Application), the specification of which:

[]	is being executed on even date herewith and is about to be filed in the United States Patent Office;
[X]	was filed on <u>May 4, 2018</u> as U.S. Application No. <u>15/971,610</u> ;
[]	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

PATENT REEL: 045972 FRAME: 0277 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: 05/22 18	Inventor 35 kn ature
~ A.	< //>
Print full name of inventor	Jean-Pierre Bono
Residence	Westboro, MA
Chimanchia	United States
Citizenship	
Mailing Address	33 Wachusett View Drive
	Westboro, MA 01581
was personally present and did see Jean-Pierr who is personally known to me, execute the analysis of the second and analysis of the second analysis	ne of first witness), whose residential address is NOWAL SYS The Bono (name of person signing the assignment), above assignment. (signature of first witness) (Signature of first witness) (2018 (date of signature).
	me of second witness), whose residential address is
	re Bono (name of person signing the assignment),
who is personally known to me, execute the	above assignment.
About the Coupling Signed at $\frac{128}{100}$ South St. $\frac{100}{100}$ on this day, $\frac{100}{100}$	(signature of second witness) <u>くんナイハ かん</u> (location of witness signature) , 2018 (date of signature).

PATENT/Joint Assignment Docket No.: 113454.00315/111178.01

Date:	5/25/2018	Ĵ. ll	and the second of the second o	
•		Ir	nventor's Signature	•••
Print full name	of inventor:	Sudhir Srinivasa	arī	
Residence:		Acton, MA		
Citizenship:		United States		
Mailing Addre	§S:	27 Canterbury H	fill Road	
		Acton, MA 0172	20	
53 PIA	in St, Up present and did see S	TOO, MA OI udhir Srinivasan (name of	person signing the assignment),	***
wno is persona	ily known to me, exec	ute the above assignment.		
Missil	ina Careu	(signature of first	witness)	
Signed at JA	A SOUA A	Hackinten M	Alocation of witness signature)	
on this day,	MAY 25	, 2018 (date of sig	mature).	
1, Christ 16 Ten	ina Turca He ple, St., 1/1	(name of second with Fard 1/14-01	ess), whose residential address is	•••
was personally	present and did see §	<u>udhir Srinivasan</u> (name of	person signing the assignment),	
who is persona	illy known to me, exe	ute the above assignment.		
<u>Owin</u>	bra Turcei	(signature of seco		
Signed at 2	3.3	. Since the state of the state	(location of witness signature)	
on this day,	MW 25	, 2018 (date of sig	ζnature).	

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Date: 6/3//	
	Inventor's Signature
Print full name of inventor	Marc A. De Souter
Residence	Wayne, NJ
Citizenship	United States
Mailing Address	64 Laauwe Avenue
	Wayne, NJ 07470
1, <u>Yvonne DeScuter</u>	(name of first witness), whose residential address is
184 Laquine Ave Was	ME, NT 07470
was personally present and did see $\underline{\mathbf{N}}$	<u>Marc A. De Souter</u> (name of person signing the assignment),
who is personally known to me, exec	cute the above assignment.
Jane De Seites	(signature of first witness)(location of witness signature)
Signed at WayNo NJ	(location of witness signature)
on this day, $\frac{}{\sqrt{3/18}}$, 2018 (date of signature).
	(name of second witness), whose residential address is
	Wayre DJ 07476
was personally present and did see N who is personally known to me, exec	Marc A. De Souter (name of person signing the assignment), cute the above assignment.
Clebra Da Sangles	(signature of second witness) (location of witness signature) , 2018 (date of signature).
Signed at <u>(Qaqae)) T</u>	(location of witness signature)
on this day,/3//8	, 2018 (date of signature).

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