PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MIKHAIL TOLSTOY	07/04/2017
ROMAN KUPRIYANOV	07/10/2017
KARYN KELLEY	06/28/2017
LARRY MCCLOSKEY	12/18/2017
IGOR MATVEEVSKIY	07/04/2017

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:	16193525

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.

Phone: 7136581818

Email: courtney.graves@chamberlainlaw.com

Correspondent Name: ALY Z. DOSSA

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Address Line 2: 1200 SMITH STREET, STE 1400

Address Line 4: HOUSTON, TEXAS 77002

ATTORNEY DOCKET NUMBER:	170360-015501US
NAME OF SUBMITTER:	ALY Z. DOSSA
SIGNATURE:	/Aly Z. Dossa/
DATE SIGNED:	04/16/2019

Total Attachments: 7



PATENT/Joint Assignment EMC Docket No.: EMC-16-1042; 170360-015500US

ASSIGNMENT

WHEREAS, we, Mikhail Tolstoy, Roman Kupriyanov, Karyn Kelley, Larry McCloskey and Igor Matveevskiy 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 MECHANISM FOR MULTIPLE COEXISTING CONFIGURATIONS SUPPORT IN VIRTUAL TAPE APPLICATIONS, 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 June 30, 2017 as U.S. Application No. 15/639,396 ;	
[]	was patented under U.S. Patent Noon	

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 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:

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Date: 44 July 2017	
	Inventor's Signature
Print full name of first inventor:	Mikhail TOLSTOY
Residence:	Russia
Citizenship:	Russia
Mailing Address:	c/o EMC IP Holding Company LLC
	176 South Street
	Hopkinton, MA 01748
the assignment) who is personally known to r	ignature of first witness) location of witness signature)
196128; Saint-Feteroburg, Mororzmay	(name of person signing
(s	ignature of second witness)
Signed at Dell EMC Russia COE	(location of witness signature)
on this day 4th July of 2	04. (date of signature)

Date: 07/10/2014	Q16
	Inventor's Signature
Print full name of second inventor:	Roman KUPRIYANOV
Residence:	Russia
Citizenship:	Russia
Mailing Address:	c/o EMC IP Holding Company LLC
	176 South Street
	Hopkinton, MA 01748
I Alina Dimitrous Russia, SPD, Moskovskiy 202,19	(name) whose residential address is
was personally present and did see <u>Lo</u> the assignment) who is personally know	man kupriyanor (name of person signing
77800	(signature of first witness)
Signed at Lussia, SPB	(location of witness signature)
on this day <u>Yu/y, 10</u>	of 20/7. (date of signature)
1 <u> </u>	(name) whose residential address is khuatova st 44-23
was personally present and did see <u>for</u> the assignment) who is personally known	man Kupr ya nov (name of person signing
<u>AZA-CED</u>	(signature of second witness)
Signed at <u>Aussia</u> , SPb	(location of witness signature)
on this day July 10	of 2017 (date of signature)

Date: 4/28/17	Xann Xeller
	Inventor's Signature
Print full name of third inventor:	Karyn KELLEY
Residence:	US
Citizenship:	US
Mailing Address:	c/o EMC IP Holding Company LLC
	176 South Street
	Hopkinton, MA 01748
was personally present and did see $\frac{K\omega}{K\omega}$, the assignment) who is personally known to	signature of first witness) (location of witness signature)
I KATENNI KENIEV	(noma) whose envidantial address is
I KATELYN KELLEY 2 COUDTHNAITE PLACE PEABOD	(name) whose residential address is
was personally present and did see <u>κας</u> -	IN KELLEY (name of person signing
the assignment) who is personally known to	
- LOSA LUY-	signature of second witness)
Signed at	
on this day	0_7. (date of signature)

Date: 12-18-2017	_ Livelal
	Inventor's Signature
Print full name of third inventor:	Larry MCCLOSKEY
Residence:	US
Citizenship:	US
Mailing Address:	c/o EMC IP Holding Company LLC
	176 South Street
	Hopkinton, MA 01748
Kathleen Clark 170 Gantsdale Cutoff Ro	(name) whose residential address is
170 Grantsdale Cutoff Re	l. Hamilton, M4 59840
was personally present and did see <u>Lan</u>	4 MCCloskey (name of person signing
the assignment) who is personally known to	me, execute the above assignment.
Hathlen Clark (s Signed at Hamilton, MH	
Signed at Hamilton, 194	(location of witness signature)
on this day <u>Dec 18^{4k}</u> of 2	0(date of signature)
	(name) whose residential address is
170 GRANFDAGE CHTOFF	RD HAMICTON MT 59840
was personally present and did see <u>LAPR</u> the assignment) who is personally known to	Y MOLOSKEY (name of person signing me, execute the above assignment.
Mark Clark (si)	gnature of second witness)
Signed at Hamicrow MT	(location of witness signature)
on this day DECEMBER 18 of 2	0 <u>17</u> . (date of signature)

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PATENT/Joint Assignment EMC Docket No.: EMC-16-1042; 170360-015500US

Date: 07/04/2017	R. C.
	Inventor's Signature
Print full name of third inventor:	Igor MATVEEVSKIY
Residence:	Russia
Citizenship:	Russia
Mailing Address:	c/o EMC IP Holding Company LLC 176 South Street Hopkinton, MA 01748
I <u>Dmitrii Burnaeu</u> (
Russia, Spl., Vayzems Vi Line	5-7
~	atveevskiy (name of person signing
the assignment) who is personally known to n	ne, execute the above assignment.
	gnature of first witness)
Signed at Litz Hotel, Bissingen (1	ocation of witness signature)
on this day 09 Yuly of 20	12. (date of signature)
1 Aleksei Troshikhin (
Russia, S. P.b., Babas	hkins str. 51-224
	Utreevsk14 (name of person signing
(sig	nature of second witness)
Signed at <u>Katel Litz, Bissin</u>	ell_ (location of witness signature)
on this day 04 July of 20	/Z-(date of signature)

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