505413066 04/05/2019

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
XIANGPING CHEN	04/03/2019
ANTON KUCHEROV	04/03/2019

#### **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:	16375001

### CORRESPONDENCE DATA

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TTORNEY DOCKET NUMBER: DELL-048PUS	
NAME OF SUBMITTER:	MARISA J. DUBUC
SIGNATURE:	/Marisa J. Dubuc/
DATE SIGNED:	04/05/2019

### **Total Attachments: 4**

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**PATENT** REEL: 048801 FRAME: 0798 505413066

### ASSIGNMENT

WHEREAS, we, Xiangping Chen and Anton Kucherov, 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 MINIMIZING RUNTIME FEATURE OVERHEAD IN A STORAGE SYSTEM and identified as Attorney Docket No. DELL-048PUS, the specification of which:

	Patent Office;	I in the United States
[ <b>X</b> ]	was filed on 4/4/20/9 as U.S. Application No;	16/375,001
r 1	was patented under U.S. Patent No. on	
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WHEREAS, EMC IP Holding Company LLC (hereinafter "ASSIGNEE"), a Delaware limited liability company 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 me;

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 assignce 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

PATENT REEL: 048801 FRAME: 0799

**PATENT** 

Atty. Dckt. No.: DELL-048PUS

Client Case No.: 114331.01

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:

AND, we hereby authorize attorneys that we have appointed and EMC IP Holding Company LLC to insert here in parenthesis (16/375 001 : 4/4/20/9 ) the application number and filing date of said Application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

PATENT

Atty. Dckt. No.: DELL-048PUS Client Case No.: 114331.01

Date: 04/03/17		MOS-MOS-MARKET PARKET P
, , , , , , , , , , , , , , , , , , ,	Inventor's Signature	
Print full name of first inventor:	Xiangping Chen	
Residence:	22 Harrington Ridge Road Sherborn, MA 01770	
Citizenship:	United States	
Mailing Address:	Same as above	
I, Svetlana Kronrod (nar 18 18/19ht Farm Conec	ne of first witness), whose residential add	lress is
was personally presented and did see Xiangpi	ng Chen who is personally known to me,	execute the
above assignment.		
Signed at Hopkinton MA on this day 4/3	re of first witness)	
Signed at Hopkinton MA	(location of witness signat	ure)
on this day $\frac{\sqrt{3}}{2}$	, 20 <u>/9</u> (date of witness signature)	
I. ARCHANA PARABULS (nam	ne of second witness), whose residential a	ddress is
O SE70~ DR SHREwsBu   was personally presented and did see Xiangpii	RY MA	······································
above assignment.	ng Chen who is personally known to me,	execute the
**		
A (signatur	re of second witness)	
Signed at HOPKINTON, NA	Acation of witness signate	re}
on this day April 4 th		***

PATENT

Atty. Dckt. No.: DELL-048PUS Client Case No.: 114331.01

Date: 4/3/2019 Inventor's Signature Anton Kucherov Print full name of first inventor: Residence: 72 Flaxfield Road Dudley, MA 01571 Citizenship: Israel Mailing Address: Same as above I, Svetlana Kronrod (name of first witness), whose residential address is

18 Wright Farm Concord MA

was personally presented and did see Anton Kucherov who is personally known to me, execute the above assignment. Signed at Hopkin Hom MA (location of witness signature) on this day 4/3 , 20 /9 (date of witness signature) I, ARCHANA PARAPNIS (name of second witness), whose residential address is was personally presented and did see Anton Kucherov who is personally known to me, execute the above assignment. \_\_\_\_\_(signature of second witness) Signed at HOPKINTON , NA (location of witness signature) on this day Apxi( 4世 , 20 14 (date of witness signature) 722740

Page 4 of 4