

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5552146

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	YU CAO	05/31/2019
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:	14572049	
CORRESPONDENCE DATA		
Fax Number:		
<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>		
Email:	Holly_Vigliatura@dell.com	
Correspondent Name:	EMC IP HOLDING COMPANY LLC	
Address Line 1:	176 SOUTH STREET	
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ATTORNEY DOCKET NUMBER:	EMC-13-0875	
NAME OF SUBMITTER:	HOLLY VIGLIATURA	
SIGNATURE:	/Holly Vigliatura/	
DATE SIGNED:	06/03/2019	
Total Attachments: 3		
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source=SignedAssignment#page2.tif		
source=SignedAssignment#page3.tif		

ASSIGNMENT

WHEREAS, I, Yu Cao, 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 NETWORK STORAGE NODE AND NETWORK STORAGE SYSTEM (Application), 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 December 16, 2014 as U.S. Application No. 14/572,049 ;

☐ was patented under U.S. Patent No. _____ on _____.

WHEREAS, EMC Corporation (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, I 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 me had this assignment and sale not been made; I 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. I 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, I hereby further agree for myself and my 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, I 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, I hereby authorize my attorneys, EMC Corporation, to insert here in parenthesis (_____) 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, I have hereunto set my hand and affixed my seal as set forth below:

Date: May 21, 2019

Cao Yu
Inventor's Signature

Print full name of inventor:

Yu Cao

19/F, Block D, Tsinghua Science Park,

Residence:

No. 1 Zhongguancun Road

Beijing, China 100084

Citizenship:

China

Mailing Address:

Same as above

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

[Signature] (signature of first witness)

Signed at office (location of witness signature)

on this day May 31 of 20 19 (date of signature)

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

[Signature] (signature of second witness)

Signed at office (location of witness signature)

on this day May 31 of 20 19 (date of signature)