505999316 04/03/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRADEN GIBSON	04/02/2020
MING ZHANG	04/03/2020
ANDREW GONCZI	04/02/2020

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15145013

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.

Email: Holly_Vigliatura@dell.com

Correspondent Name: EMC IP HOLDING COMPANY LLC

Address Line 1: 176 SOUTH STREET

Address Line 4: HOPKINTON, MASSACHUSETTS 01748

ATTORNEY DOCKET NUMBER: EMC-15-0359

NAME OF SUBMITTER: HOLLY VIGLIATURA

SIGNATURE: /Holly Vigliatura/

DATE SIGNED: 04/03/2020

Total Attachments: 3

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PATENT 505999316 REEL: 052306 FRAME: 0314

PATENT/Joint Assignment EMC Docket No.: EMC-15-0359(PRO)ORD1

ASSIGNMENT

WHEREAS, we, Braden Gibson, Ming Zhang, and Andrew Gonczi 2 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 ENTER TITLE, 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 May 3, 2016 as U.S. Application No. 15/145013;
[]	was patented under U.S. Patent Noon

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

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PATENT/Joint Assignment EMC Docket No.: EMC-15-0359(PRO)ORD1

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;

AND, we hereby authorize our attorneys, EMC IP Holding Company LLC, 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, we have hereunto set our hands and affixed our seals as set forth below:

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PATENT REEL: 052306 FRAME: 0316

PATENT/Joint Assignment EMC Docket No.: EMC-15-0359(PRO)ORD1

Date:	4/2/2020	13/1/AC
	•	Inventor's Signature
Print full r Residence Citizenshi Mailing A	p:	Braden Gibson 11111 Grand Park Ave., Riverview, FL 33578 United States Same as above
Date:	4/3/2020	
		Inventor's Signature
Print full	name of inventor:	Ming Zhang
Residence:		225 Wellington Rd, Garden City, NY 11530
Citizensh	ip:	China
Mailing A	Address:	Same as above
Date:	4/2/2020	- Lefh
		Inventor's Signature
Print ful	Il name of inventor:	Andrew Gonczi
Residen	ce:	2072 Fairway Crossing Drive, Woodstock, GA
		30188
Citizens	hip:	United States
Mailing Address:		Same as above

RECORDED: 04/03/2020