## 504879101 04/20/2018

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date	
VENKATA L R IPPATAPU	04/20/2018	

### **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:	15958556

### **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:** 508-898-8601

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Address Line 4: WESTBOROUGH, MASSACHUSETTS 01581

ATTORNEY DOCKET NUMBER:	EMS-688US	
NAME OF SUBMITTER:	DANIEL P. MCLOUGHLIN	
SIGNATURE:	/Daniel P. McLoughlin/	
ATE SIGNED: 04/20/2018		

**Total Attachments: 2** 

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PATENT 504879101 REEL: 045601 FRAME: 0017

Attorney Docket No.: EMS-688US EMC Docket No.: 110245.01

#### ASSIGNMENT

WHEREAS, I, Venkata L R IPPATAPU, has 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 MULTI-GRANULAR DATA REDUCTION FOR REMOTE DATA REPLICATION, the specification of which:

[X] is being executed	on even date	herewith	and is	about	to be	tiled ir	i the	United	States
Patent Office;									
[] was filed on		as U.S.	Applic	ation f	۷o				
[] was patented unc	ler U.S. Paten	t No			on				*

WHEREAS, EMC IP HOLDING COMPANY LLC (hereinafter "ASSIGNEE"), which is a corporation organized and existing under the laws 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, treatles 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, I 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, 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.

PATENT REEL: 045601 FRAME: 0018

Attorney Docket No.: EMS-688US EMC Docket No.: 110245.01

•	rhead and Saturnelli, LLC to insert here in parenthesis) the application number and filing date of said
	o facilitate the recording or other official processing of
this Assignment.	
IN TESTIMONY WHEREOF, I have hereunt below:	to set my hands and affixed our seals as set forth
Date: 04/20/2018	Venkala
	Inventor's Signature
	Venkata L R IPPATAPU
Print full name of first inventor:	WESTERGER LE SE SE FOR SOUR LO
Residence:	293 Turnpike Road, Apt. 412
	Westborough, MA 01581
Citizenship:	INDIA
Mailing Address:	Same as above
I <u>Nansimba Challa</u> (name	e) whose residential address is
307 Central St. Apr. 2303	
personally present and did see	Towasky (name of person signing the
assignment) who is personally known to me, exec	
C Nasimba Kally (signat	ure of first witness)
Signed at(IPG S S+, HoptSection, MA  Signed at(IPG A)	ion of witness signature)
on this day <u>2015 Apr\l</u> of 2018	late of simply was
on this day or 2018_	. (date of signature)
804 and a line and	e) whose residential address is
personally present and did see	was
assignment) who is personally known to me, execution	cute the above assignment.
<u> </u>	ure of second witness)
Signed at 176 5027457-402410	(location of witness signature)
on this day 2014 Company of 2015	(date of signature)

PATENT REEL: 045601 FRAME: 0019

**RECORDED: 04/20/2018**