# 502024029 08/14/2012

### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Manoj Kumar JAIN	07/30/2012
Siju Viswanath Koodali EDATHIL	07/30/2012
Kottolli Vishweshwara ARUN	07/30/2012

### RECEIVING PARTY DATA

Name:	EMC CORPORATION
Street Address:	176 South Street
City:	Hopkinton
State/Country:	MASSACHUSETTS
Postal Code:	01748

# PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13561340

# CORRESPONDENCE DATA

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 5088988602

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 (508) 898-8601

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

Correspondent Name: Donald W. Muirhead

Address Line 1: Muirhead and Saturnelli, LLC

Address Line 2: 200 Friberg Parkway, Suite 1001

Address Line 4: Westborough, MASSACHUSETTS 01581

ATTORNEY DOCKET NUMBER:	EMS-464US; EMC-11-905
NAME OF SUBMITTER:	Donald W. Muirhead

Total Attachments: 4

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PATENT REEL: 028781 FRAME: 0946 TCH \$40,00 13561

502024029

### ASSIGNMENT

WHEREAS, we, Manoj Kumar JAIN, Siju Viswanath Koodali EDATHIL and Kottolli Vishweshwara ARUN 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 SCALABLE CODEBOOK CORRELATION FOR CLOUD SCALE TOPOLOGY, the specification of which:

[]	is being executed on even date herewith an	d is about to be filed in the United
	States Patent Office;	·
[X]	was filed on July 30, 2012 as U.S. Applicat	ion No. 13/561,340;
[]	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, 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;

	equest the Commissioner of Patents of the United e granted upon said application or applications based assigns, and legal representatives.
parenthesis (	of Muirhead and Saturnelli, LLC to insert here in) the application number and unterpart application) to facilitate the recording or
IN TESTIMONY WHEREOF, we set forth below:	have hereunto set our hands and affixed our seals as
Date: July 30 th 2012	Hiventor's Signature
Print full name of first inventor: Residence: Citizenship: Mailing Address:	Manoj Kumar JAIN #305 B3, Viceroy Apt. Marthahalli Bangalore, Karnataka 560037 India India Same
1, 1.11	
Signed at July 30th 2012, BANG On this day July 30th of the 30th o	(signature of first witness)  ALORE (location of witness signature) f 2012. (date of signature)
I, <u>CIRISH</u> NADGER # 327 II <sup>ng</sup> main BSK III Stege , A Was personally present and did see Manoj K assignment) who is personally known to me,	(name) whose residential address is  3ANGALORE - 85  Sumar JAIN (name of person signing the
Signed at BANGALORE On this day July 30th of	(location of witness signature) f 20 <u>17</u> . (date of signature)

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Date: July 30th 2012	y Win-
	Inventor's Signature
Print full name of second inventor: Residence:	Siju Viswanath Koodali EDATHIL Flat 8-L, Lakeview County Apt, Singasandra Bangalore, Karnataka 560068 India
Citizenship: Mailing Address:	India Same
#308, Block B, ISHAA FRONT APT.	SOM ASUNDRA, HSR/BANGALORE, 560 103
	Viswanath Koodali EDATHIL (name of person y known to me, execute the above assignment.
- White	(signature of first witness)
Signed at <u>BANGALORE</u> On this day <u>JULY 30<sup>th</sup></u>	(location of witness signature)of 2012. (date of signature)
I, GIRTSH NADGER #327, IF ng. mein BSK IF S	(name) whose residential address is
Was personally present and did see Siju V	Viswanath Koodali EDATHIL (name of person known to me, execute the above assignment.
- last.	(signature of second witness)
Signed at BANGALORE	(location of witness signature)
On this day	_of 20 <i>12</i> . (date of signature)

Date: July 30 20/2	An pet.
•	Inventor's Signature
Print full name of third inventor:	Kottolli Vishweshwara ARUN
Residence:	No. 86, 6A Main Road
	Tata Silk Farm
	Bangalore, Karnataka 560004 India
Citizenship:	India
Mailing Address:	Same
#308, Black B, J5HAA LAKE APT, was personally present and did see Kottoll assignment) who is personally known to m	SWARDN (name) whose residential address is SOMBSUNDRA, HSR, BANGALDRE -560 103 li Vishweshwara ARUN (name of person signing the ne, execute the above assignment.  (signature of first witness)
Signed at BANGALORE On this day JULY 30th	(location of witness signature) _of 2012. (date of signature)
I, <u>CIRISH NADGER</u> #327. II not main, BSK III Ske Was personally present and did see Kottol assignment) who is personally known to m	Le , BANGALORE - 85  li Vishweshwara ARUN (name of person signing the
Luis.	(signature of second witness)
Signed at BANGALORE	(location of witness signature)
On this day JULY 30th	of 2012 (date of signature)
•	

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PATENT REEL: 028781 FRAME: 0950