

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		
CONVEYING PARTY DATA			
	Name	Execution Date	
	ROBERT L. FAIR	01/29/2018	
	THOMAS R. VANDERPUTTEN	01/26/2018	
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:	15883960	
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ATTORNEY DOCKET NUMBER:	16192.202		
NAME OF SUBMITTER:	PETER F. MALEN JR.		
SIGNATURE:	/Peter F. Malen Jr./		
DATE SIGNED:	01/30/2018		
Total Attachments: 4			
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source=16192-202_Assignment#page4.tif			

ASSIGNMENT

WHEREAS, I/we, Robert L. Fair and Thomas R. Vanderputten 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 SPARSE CREATION OF PER-CLIENT PSEUDOS IN NETWORK FILESYSTEM WITH LOOKUP HINTING, 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 _____ as U.S. Application No. _____;

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

WHEREAS, EMC IP Holding Company LLC (hereinafter "ASSIGNEE"), 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 me/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/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 me/us had this assignment and sale not been made; I/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. I/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/we hereby further agree for myself/ourselves and my/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/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.

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

Date: 12th 12/18

RL Fair
inventor's Signature

Print full name of inventor:

Robert L. Fair

Residence:

Cary, North Carolina

Citizenship:

United States of America

Mailing Address:

107 Lamlash Lane

Cary, North Carolina 27511

United States of America

S. Fair (name) whose residential address
La Lash Ln. Cary NC 27511
was personally present and did see *RL Fair* (name of person signing the
assignment) who is personally known to me, execute the above assignment.

(signature of first witness)
Signed at *1151 NC* (location of witness signature)
on this day *2 Jan* of 20 *18* (date of signature)

I *la* (name) whose residential address is
la
was personally present and did see (name of person signing the
assignment) who is personally known to me, execute the above assignment.

(signature of second witness)
Signed at (location of witness signature)
on this day of 20 *18* (date of signature)

Inventor's signature

Print full name of inventor:

Thomas R. Vanderputten

Residence:

Chapel Hill, North Carolina

Citizenship:

United States of America

Mailing Address:

201 Newberry Lane

Chapel Hill, North Carolina 27516

United States of America

Ke va Desai (name) whose residential address
712 Huxford Court Cor NC - 27519

was personally present and see *Thomas Vanderputten* (name of person signing the assignment) who is personally known to me, execute the above assignment.

[Signature]

(signature of first witness)

Signed at *RTP* (location of witness signature)

on this day *26* of 20 *18* (date of signature)

I Raghav Venkatesh Narayana (name) whose residential address is
6711 N. ... R. CAR ... - 27

was personally present and did see *Thomas Vanderputten* (name of person signing the assignment) who is personally known to me, execute the above assignment.

[Signature]

(signature of second witness)

Signed at *R* (location of witness signature)

on this day *26* of 20 *18* (date of signature)