502940489 08/19/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DHEER MOGHE	08/19/2014
ABHINAV DUGGAL	08/19/2014

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:	14451795

CORRESPONDENCE DATA

Fax Number: (978)341-0136

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.

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Email: nicole.isabelle@hbsr.com

Correspondent Name: TIMOTHY J. MEAGHER, ESQ.

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08/19/2014

ATTORNEY DOCKET NUMBER: 4427.1018-001

NAME OF SUBMITTER: NICOLE ISABELLE

SIGNATURE: /NICOLE ISABELLE/

Total Attachments: 3

DATE SIGNED:

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PATENT 502940489 REEL: 033561 FRAME: 0892



PATENT/Joint Assignment Attorney Docket No.: 4427.1018-000 EMC Docket No.: EMC-13-1125

ASSIGNMENT

HEREAS, we, Dheer Moghe and Abhinav Duggal 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 Using Dataless Snapshots for File Verification, the specification of which: J :- the United

[]	is being executed on even date herewith and is about to be filed in the Onton States Patent Office;	
[X]	was filed on August 5, 2014 as U.S. Application No. 14/451,795;	
£ 1	was patented under U.S. Patent Noon	e c

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

opolitan Area egn. No. 8308

REEL: 033561 RAME: 089

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PATENT/Joint Assignment Attorney Docket No.: 4427.1018-001 EMC Docket No.: EMC-13-1125

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.

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

	Inventor's Signature	
	Dheer Moghe	
Print full name of first inventor:		
Residence:	Bangalore, Karnataka, IN 560102	
Citizenship:	IN D 303, Springfield apt, Sarjapur Road	
Mailing Address:		
900 m	Bangalore, Karnataka, IN 560102	
STATE/COMMONWEALTH OF		
COUNTY OF		
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ADVOCATE & NOTATO COVI. OF INDIA

No.2, Ananda Nilaya, Vinobhanagar,
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PATENT REFL: 033561 FRAME: 0894

PATENT/Joint Assignment Attorney Docket No.: 4427.1018-001 EMC Docket No.: EMC-13-1125

	19 Aug 2014	Inventor's	Signature
Print full na	ame of first inventor:	Abhinav Duggal	
Residence:		Bangalore, Karnataka, Il	N 560035
Citizenship	≰anan kanan kanan ka	IN	
Mailing Ad	dress:	C-605, Salarpuria Sanct	ity, Sarjapur Road
		Bangalore, Karnataka, I	N 560035
STATE/CO	MMONWEALTH OF COUNTY OF		
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cknowledge	ed that he/she executed the of, 20	foregoing instrument as his/he	My Term Expires or

ADVOCATE & NOTARY

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PATENT REEL: 033561 FRAME: 0895