PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL JOHN DUTCH	10/12/2012
CHRISTOPHER HERCULES CLAUDATOS	10/12/2012
MANDAVILLI NAVNEETH RAO	10/12/2012

RECEIVING PARTY DATA

Name:	EMC CORPORATION
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	CALIFORNIA
Postal Code:	01748

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14572457

CORRESPONDENCE DATA

Fax Number: (408)973-2595

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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Correspondent Name: VAN PELT, YI & JAMES LLP AND EMC CORPORA

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Address Line 2: SUITE 200

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ATTORNEY DOCKET NUMBER:	EMCCP304C1	
NAME OF SUBMITTER:	WILLIAM J. JAMES	
SIGNATURE:	/william j. james/	
DATE SIGNED:	02/13/2015	

Total Attachments: 5

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ASSIGNMENT

WHEREAS, we, Michael John Dutch, Christopher Hercules Claudatos, and Mandavilli Navneeth Rao 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 POST BACKUP CATALOGS, 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 September 28, 2012 as U.S. Application No. 13/631,633;
[]	was patented under U.S. Patent Noon

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

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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, 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:

Date: <i>Oct</i> 12, 201	2 Minh Ota		
,	Inventor's Signature		
Print full name of first inventor	or: Michael John Dutch		
Residence:	Saratoga, CA		
Citizenship:	United States of America		
Mailing Address:	176 South Street		
	Hopkinton, MA 01748		
	n n		
STATE OF	Santa Clara		
COUNTY OF	Sana Cara		
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.			
WITNESS my hand and offic	ial seal.		
	Deana J. Vortes		
	Notary Public		
	Print Name: Deanna L. Santos		
	My Commission expires 8/24/2016		
	OEANNA L. SANTOS Commission # 1988108 Notary Public - Californis Santa Clara County My Comm. Expires Aug 21, 2018		

Date: 10/12/2012		
	Inventor's Signature	
Print full name of second inventor:	Christopher Hercules Claudatos	
Residence:	San Jose, CA	
Citizenship:	United States of America	
Mailing Address:	176 South Street	
	Hopkinton, MA 01748	
STATE OF CA		
STATE OF <u>CA</u> COUNTY OF <u>Santa</u>	Clara	
On this 12 day of October , 2012, before me appeared Chris Claudatos who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.		
WITNESS my hand and official seal.		
·	Deanso J. Santes	
	Notary Public	
	Print Name: Deanna L. Santos	
	Print Name: <u>Deanna</u> L. Santos My Commission expires 8/21/2016	
	OEANNA L. SANTOS Commission # 1988108 Notary Public - California Santa Clara County My Comm. Expires Aug 21, 2018	

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Date: 10/12/12 Mandavilli Navneeth Rao Print full name of third inventor: Residence: Santa Clara, CA India Citizenship: Mailing Address: 176 South Street Hopkinton, MA 01748 STATE OF COUNTY OF On this 12 day of October, 20/2, before me appeared Mandavilli Navneeth Rao who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. Plania I. Santas Notary Public
Print Name: Deama L. Sonfos My Commission expires 8/21/2016

> Notary Public - California Santa Clara County My Comm. Expires Aug 21, 2018

DEANKA L. SANTOS Commission & 1988108

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RECORDED: 02/13/2015