

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>ADRIAN DOBREAN</td> <td>11/25/2013</td> </tr> <tr> <td>DOROTA ZAK</td> <td>11/21/2013</td> </tr> <tr> <td>KENNETH WILLIAM OWENS</td> <td>11/25/2013</td> </tr> <tr> <td>THOMAS PAPADAKIS</td> <td>11/20/2013</td> </tr> </tbody> </table>		Name	Execution Date	ADRIAN DOBREAN	11/25/2013	DOROTA ZAK	11/21/2013	KENNETH WILLIAM OWENS	11/25/2013	THOMAS PAPADAKIS	11/20/2013
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<table border="1"> <tr> <td>Name:</td> <td>EMC Corporation</td> </tr> <tr> <td>Street Address:</td> <td>176 South Street</td> </tr> <tr> <td>City:</td> <td>Hopkinton</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>01748</td> </tr> </table>		Name:	EMC Corporation	Street Address:	176 South Street	City:	Hopkinton	State/Country:	MASSACHUSETTS	Postal Code:	01748
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CORRESPONDENCE DATA											
Fax Number:	(801)328-1707										
Phone:	801-533-9800										
Email:	mdunaway@wnlaw.com										
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ATTORNEY DOCKET NUMBER:	16192.126										
NAME OF SUBMITTER:	CARL T. REED										

Signature:	/Carl T. Reed, Reg.# 45454/
Date:	11/25/2013
Total Attachments: 6 source=16192-126_20131125_Assignment#page1.tif source=16192-126_20131125_Assignment#page2.tif source=16192-126_20131125_Assignment#page3.tif source=16192-126_20131125_Assignment#page4.tif source=16192-126_20131125_Assignment#page5.tif source=16192-126_20131125_Assignment#page6.tif	

ASSIGNMENT

WHEREAS, I/we, Adrian Dobrean, Dorota Zak, Kenneth William Owens and Thomas Papadakis 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 CLIENT BASED BACKUPS AND BACKUP INDEXING, 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 November 20, 2013 as U.S. Application No. 14/085,511;

☐ 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 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:

Nov 25, 2013



Inventor's Signature

Print full name of first or sole inventor:

Adrian Dobrea

Residence:

Oakville, ON, Canada

Citizenship:

Canada

Mailing Address:

248 O'Donoghue Ave.
Oakville, ON
L6H3W6
Canada

I Kwangyoung Jung (name) whose residential address is

5255 palmetto pl. #134, Mississauga, ON L5M 0H2

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

 (signature of first witness)

Signed at Burlington, Ontario, Canada (location of witness signature)

on this day Nov 25th of 2013. (date of signature)

I Daniel Wowski (name) whose residential address is

605 - 1900 Main St, West, Hamilton, ON, L8S 4R8

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

 (signature of second witness)

Signed at Burlington, On, Canada (location of witness signature)

on this day Nov 25th of 2013. (date of signature)

Date: Nov 21, 2013

Dorota Zak

Inventor's Signature

Print full name of second inventor:

Dorota Zak

Residence:

Mississauga, Ontario, Canada

Citizenship:

Canada

Mailing Address:

**3634 Molly Ave
Mississauga, Ontario
L5A 3M5
Canada**

I DUNG (JANE) TANG (name) whose residential address is
2177 Buchan Thorpe Road West unit 201, Miss, ON, L5L 5P9
was personally present and did see DOROTA ZAK (name of person signing
the assignment) who is personally known to me, execute the above assignment.

[Signature]

(signature of first witness)

Signed at EMC CANADA (location of witness signature)

on this day 21 Nov of 20 13. (date of signature)

I Ken Newman (name) whose residential address is

1251 Highgate Place, Mississauga

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

[Signature]

(signature of second witness)

Signed at EMC Canada (location of witness signature)

on this day Nov 21 of 20 13. (date of signature)

Date:

Nov. 25, 2013

Inventor's Signature

Ken Owens

Print full name of third inventor:

Kenneth William Owens

Residence:

Burlington, ON

Citizenship:

Canada

Mailing Address:

358 Strathecona Drive
Burlington, ON
L7L 2E3
Canada

I Rock Brown (name) whose residential address is

1445 Columbia Cres, Burlington Ontario L7M 3G5

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

Rock Brown (signature of first witness)

Signed at BURLINGTON (location of witness signature)

on this day Nov 25 of 20 13. (date of signature)

I Emile Leroux (name) whose residential address is

1503 Rushmore Cres, Burlington ON

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

Emile Leroux (signature of second witness)

Signed at Burlington (location of witness signature)

on this day Nov 25 of 20 13. (date of signature)

Date: Nov 20, 2013


Inventor's Signature


Print full name of fourth inventor:
Residence:
Citizenship:

Thomas Papadakis
Burlington, ON
Canada


Mailing Address:

951 Tollgate Pl
Burlington, ON
L7T 4K4
Canada

I Kwangyoung Jung (name) whose residential address is
5255 palmetto pl. #134, Mississauga, ON L5M 0H2, Canada
was personally present and did see Thomas Papadakis (name of person signing
the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)
Signed at Burlington, Ontario, Canada (location of witness signature)
on this day November 20th of 2013. (date of signature)

I Jiayuan Sui (name) whose residential address is
5432 Robson Road, Burlington, ON L7L 7W2 Canada
was personally present and did see Thomas Papadakis (name of person signing
the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)
Signed at Burlington, ON, Canada (location of witness signature)
on this day November 20th of 2013. (date of signature)