

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Assaf Natanzon</td> <td>04/30/2012</td> </tr> <tr> <td>Saar Cohen</td> <td>04/30/2012</td> </tr> <tr> <td>Jehuda Shemer</td> <td>04/30/2012</td> </tr> <tr> <td>Alex Solan</td> <td>04/30/2012</td> </tr> </tbody> </table>		Name	Execution Date	Assaf Natanzon	04/30/2012	Saar Cohen	04/30/2012	Jehuda Shemer	04/30/2012	Alex Solan	04/30/2012
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Jehuda Shemer	04/30/2012										
Alex Solan	04/30/2012										
RECEIVING PARTY DATA											
Name:	EMC International Company										
Street Address:	2 Church Street										
City:	Hamilton										
State/Country:	BERMUDA										
PROPERTY NUMBERS Total: 4											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13077246</td> </tr> <tr> <td>Application Number:</td> <td>13077256</td> </tr> <tr> <td>Application Number:</td> <td>13077262</td> </tr> <tr> <td>Application Number:</td> <td>13077266</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13077246	Application Number:	13077256	Application Number:	13077262	Application Number:	13077266
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CORRESPONDENCE DATA											
<p>Fax Number: <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: Docketing@emc.com Correspondent Name: EMC Corporation Address Line 1: 176 South Street Address Line 2: Joseph D'Angelo Address Line 4: HOPKINTON, MASSACHUSETTS 01748</p>											
NAME OF SUBMITTER:	Joseph D'Angelo										
Signature:	/Joseph D'Angelo/										

CH \$160.00 13077246

PATENT

Date:

05/24/2013

Total Attachments: 6

source=EMC-10-445,446,447 & 11-002_Assignment-Natanzon, Cohen, Shemer & Solan#page1.tif

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ASSIGNMENT

WHEREAS, we, Assaf Natanzon, Saar Cohen, Jehuda Shemer, and Alex Solan, together with Steven R. Bromling, have invented inventions comprising and/or embodying certain improvements or discoveries or both as described in applications for Letters Patent of the United States entitled:

JOURNAL BASED REPLICATION WITH A VIRTUAL SERVICE LAYER, the specification of which was filed on March 31, 2011 as U.S. Application No. 13/077,246;

CONSISTENT REPLICATION IN A GEOGRAPHICALLY DISPERSE ACTIVE ENVIRONMENT, the specification of which was filed on March 31, 2011 as U.S. Application No. 13/077,256;

INVERSE STAR REPLICATION, the specification of which was filed on March 31, 2011 as U.S. Application No. 13/077,262; and

NETWORKED BASED REPLICATION OF DISTRIBUTED VOLUMES, the specification of which was filed on March 31, 2011 as U.S. Application No. 13/077,266; (Applications)

WHEREAS, EMC International Company (hereinafter "ASSIGNEE"), an unlimited private company organized under the laws of Ireland, with its principal place of activities at 2 Church Street, Hamilton, Bermuda, desires to acquire an interest therein in accordance with agreements duly entered into among EMC International Company, EMC Israel Development Center Ltd. and 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 inventions as described in said applications, together with the entire right, title and interest in and to said applications and such Letters Patent as may issue thereon; said inventions, applications 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 inventions or any applications or patents 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;

AND, we hereby authorize our attorneys, EMC Corporation, to insert here in parenthesis () the application numbers and filing date of said Applications (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

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

Date: 30/11/2012 _____
Inventor's Signature

Print full name of inventor Assaf Natanzon
Residence Levanon 95, Tel Aviv, Israel 69395
Citizenship IL
Mailing Address Same as above

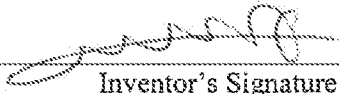
I, Vitali Melamed (name of first witness), whose residential address is
Hertzal 30, Ramat Gan Israel
was personally present and did see Assaf Natanzon (name of person signing the assignment),
who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)
Signed at Hertzalia (location of witness signature)
on this day, 30/11, 2012 (date of signature).

I, Lechod (name of second witness), whose residential address is
Mohaliver 6, Herzlia Israel
was personally present and did see Assaf Natanzon (name of person signing the assignment),
who is personally known to me, execute the above assignment.

Lechod (signature of second witness)
Signed at Hertzalia (location of witness signature)
on this day, 30/11, 2012 (date of signature).

Date: 30/4/2012


Inventor's Signature

Print full name of inventor

Saar Cohen

Residence

P.O.B. 162, Moshav, Mishmeret, Israel 40695

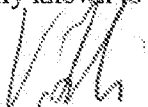
Citizenship

IL

Mailing Address

Same as above

I, Vitali Melamud (name of first witness), whose residential address is
Hertzel 80, Ramat Gan, Israel
was personally present and did see Saar Cohen (name of person signing the assignment), who is personally known to me, execute the above assignment.


..... (signature of first witness)

Signed at Hertzelia (location of witness signature)

on this day, 30/4, 20 12 (date of signature).


I, Lechod Baruch (name of second witness), whose residential address is
Mohaliev 6, Hertzelia Israel
was personally present and did see Saar Cohen (name of person signing the assignment), who is personally known to me, execute the above assignment.

Lechod (signature of second witness)

Signed at Hertzelia (location of witness signature)

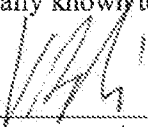
on this day, 30/4, 20 12 (date of signature).

Date: 20/4/2012


Inventor's Signature

Print full name of inventor **Jehuda Shemer**
Residence **Brenner 7 Street, Kfar Saba, Israel 44349**
Citizenship **IL**
Mailing Address **Same as above**

I, Vitali Melamed (name of first witness), whose residential address is
Hertzel 80, Ramat Gan Israel
was personally present and did see Jehuda Shemer (name of person signing the assignment), who
is personally known to me, execute the above assignment.


..... (signature of first witness)
Signed at Hertzelia (location of witness signature)
on this day, 30/4, 2012 (date of signature).

I, Lechod Baruch (name of second witness), whose residential address is
Motabier 6, Hertzelia, Israel
was personally present and did see Jehuda Shemer (name of person signing the assignment), who
is personally known to me, execute the above assignment.

Lechod (signature of second witness)
..... (signature of second witness)
Signed at Hertzelia (location of witness signature)
on this day, 30/4, 2012 (date of signature).

Date: April 30th 2012

Alex Solan
Inventor's Signature

Print full name of inventor **Alex Solan**
Residence Yair Shtem 7, Apt. 13, Hertzliya, Israel 46412
Citizenship IL
Mailing Address Same as above

I, Vitali Melamed (name of first witness), whose residential address is
Hertzel 80, Ramat Gan Israel
was personally present and did see Alex Solan (name of person signing the assignment), who is personally known to me, execute the above assignment.

Vitali Melamed (signature of first witness)
Signed at Hertzelia (location of witness signature)
on this day, 30/4, 2012 (date of signature).

I, Lechod Baruch (name of second witness), whose residential address is
Mohaliev 6, Hertzliya Israel
was personally present and did see Alex Solan (name of person signing the assignment), who is personally known to me, execute the above assignment.

Lechod Baruch (signature of second witness)
Signed at Hertzelia (location of witness signature)
on this day, 30/4, 2012 (date of signature).