

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ASSAF NATANZON	12/01/2016
LEEOD BARUCH	12/13/2016
RON BIGMAN	12/07/2016
AMIT LIEBERMAN	12/01/2016
JEHUDA SHEMER	12/05/2016
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:	15380033
CORRESPONDENCE DATA	
Fax Number:	(781)401-9966
<i>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.</i>	
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Correspondent Name:	DALY, CROWLEY, MOFFORD & DURKEE, LLP
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Address Line 4:	CANTON, MASSACHUSETTS 02021-2714
ATTORNEY DOCKET NUMBER:	EMC-350PUS
NAME OF SUBMITTER:	PAUL D. DURKEE
SIGNATURE:	/Paul D. Durkee/
DATE SIGNED:	12/20/2016
Total Attachments: 7	
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ASSIGNMENT

WHEREAS, we, Assaf Natanzon, Leehod Baruch, Ron Bigman, Amit Lieberman and Jehuda Shemer, 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 INDEPENDENT PARALLEL ON DEMAND RECOVERY OF DATA REPLICAS IN A STORAGE SYSTEM and identified as Attorney Docket No. EMC-350PUS, 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 Delaware limited liability company 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;

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 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;

AND, we hereby authorize attorneys that we have appointed and EMC IP Holding Company LLC to insert here in parenthesis (15/380 033, Dec. 15, 2016) the application number and filing date of said Application (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:

PATENT

Atty. Dckt. No.: EMC-350PUS
Client Case No.: EMC-16-0653

Date: 1/12/16

[Signature]
Inventor's Signature

Print full name of first inventor: Assaf Natanzon

Residence: Lebanon 95
Tel Aviv 69395
ISRAEL

Citizenship: Israel

Mailing Address: Same as above

I, Yarden Schindler (name of first witness), whose residential address is
Bat-Hen Teena 10 Israel
was personally presented and did see Assaf Natanzon who is personally known to me, execute the
above assignment.

Yarden (signature of first witness)
Signed at EMC Office Herzliya (location of witness signature)
on this day 1/12, 2016 (date of witness signature)

I, Michael Yaffar Dvir (name of second witness), whose residential address is
34c Shifon Israel St. Herzliya
was personally presented and did see Assaf Natanzon who is personally known to me, execute the
above assignment.

Michael Y Dvir (signature of second witness)
Signed at Dell-Emc offices (location of witness signature)
on this day Dec. 1, 2016 (date of witness signature)

Date: 12.12.2016

Leehod Baruch
Inventor's Signature

Print full name of first inventor:

Leehod Baruch

Residence:

Zabotinski 48
Rishon Leziyon
ISRAEL

Citizenship:

Israel

Mailing Address:

Same as above

I, Yarden Schindler (name of first witness), whose residential address is
Bat Hen teena 10 Israel
was personally presented and did see Leehod Baruch who is personally known to me, execute the
above assignment.

Yarden (signature of first witness)
Signed at Emc Herzliya (location of witness signature)
on this day 13/12, 20 16 (date of witness signature)

I, Chen Citrus (name of second witness), whose residential address is
Dit'nach 24 Tel-Aviv
was personally presented and did see Leehod Baruch who is personally known to me, execute the
above assignment.

I, Ch (signature of second witness)
Signed at Emc Herzliya (location of witness signature)
on this day 13/12, 20 16 (date of witness signature)

PATENT

Atty. Dckt. No.: EMC-350PUS
Client Case No.: EMC-16-0653

Date: 20 of Dec 2016 ^{RCC}

[Signature]
Inventor's Signature

Print full name of first inventor: Ron Bigman

Residence: Shmaryahu Levin 2
Holon 6852114
ISRAEL

Citizenship: Israel

Mailing Address: Same as above

I, Idan Rahumim (name of first witness), whose residential address is
Israel

was personally presented and did see Ron Bigman who is personally known to me, execute the
above assignment.

[Signature] (signature of first witness)

Signed at EMC Herzliya (location of witness signature)
on this day Wednesday 21st, 2016 (date of witness signature)

I, Gabriel Gluska (name of second witness), whose residential address is
Israel

was personally presented and did see Ron Bigman who is personally known to me, execute the
above assignment.

I, [Signature] (signature of second witness)

Signed at EMC Herzliya (location of witness signature)
on this day Wednesday December 7, 2016 (date of witness signature)

Date: 1 Dec 2016

[Signature]
Inventor's Signature

Print full name of first inventor: Amit Lieberman

Residence: 13 Ben Gurion
Raanana 43360
ISRAEL

Citizenship: Israel

Mailing Address: Same as above

I, Semya Touretski (name of first witness), whose residential address is
Elzior str. 7 Ramat Gan Israel
was personally presented and did see Amit Lieberman who is personally known to me, execute the
above assignment.

[Signature] (signature of first witness)
Signed at Hertzlia, Israel (location of witness signature)
on this day 1 December, 20 16 (date of witness signature)

I, Anna Dorian (name of second witness), whose residential address is
Yatzman 24 Yehud
was personally presented and did see Amit Lieberman who is personally known to me, execute the
above assignment.

I, [Signature] (signature of second witness)
Signed at Hertzlia, Israel (location of witness signature)
on this day 1 December, 20 16 (date of witness signature)

PATENT

Atty. Dckt. No.: EMC-350PUS
Client Case No.: EMC-16-0653

Date: 5/10/2016

[Signature]
Inventor's Signature

Print full name of first inventor:

Jehuda Shemer

Residence:

Brener 7/7
Kfar Saba 44349
ISRAEL

Citizenship:

Israel

Mailing Address:

Same as above

I, Dr. Y. J. J. (name of first witness), whose residential address is

_____ was personally presented and did see Jehuda Shemer who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at Brener 7/7 (location of witness signature)

on this day Dec 5, 2016 (date of witness signature)

I, Slavik Veymer (name of second witness), whose residential address is

67, Frishman St. Tel Aviv was personally presented and did see Jehuda Shemer who is personally known to me, execute the above assignment.

I, Slavik Veymer (signature of second witness)

Signed at Huzel 19 a (location of witness signature)

on this day Dec 5, 2016 (date of witness signature)

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