

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4666015

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
STEVEN BROMLING	10/30/2017
JOSHUA BAERGEN	10/30/2017
PAUL A. SHELLEY	10/30/2017
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:	15798632
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ATTORNEY DOCKET NUMBER:	109420.01
NAME OF SUBMITTER:	JOSEPH B. RYAN
SIGNATURE:	/joseph b. ryan/
DATE SIGNED:	10/31/2017
Total Attachments: 5	
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ASSIGNMENT

WHEREAS, we, Steven Bromling, Joshua Baergen and Paul A. Shelley, 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 **STORAGE SYSTEM WITH SELECTABLE CACHED AND CACHELESS MODES OF OPERATION FOR DISTRIBUTED STORAGE VIRTUALIZATION**, 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 limited liability company organized and existing under the laws of the State of Delaware 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,

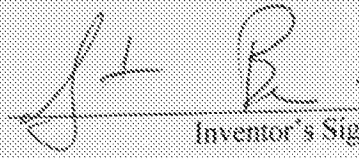
reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

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:

Oct. 30, 2017



Inventor's Signature

Print full name of first inventor:

Steven Bromling

Residence:

Edmonton, Alberta, Canada

Citizenship:

Canada

Mailing Address:

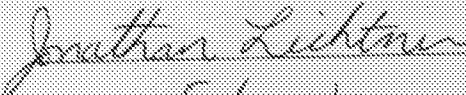
10907 - 36A Avenue

Edmonton, Alberta, Canada T6J 0E3

I Jonathan Lichtner (name) whose residential address is

3927 149A St NW, Edmonton, AB T6R 1J8

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

 (signature of first witness)

Signed at Edmonton (location of witness signature)

on this day Oct. 30 of 2017, (date of signature)

I John Argyanis (name) whose residential address is

69 Riverpointe Dr. Fort Saskatchewan AB T8L 4H3

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

 (signature of second witness)

Signed at Edmonton (location of witness signature)

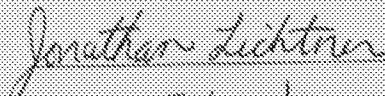
on this day October 30 of 2017, (date of signature)

Date: Oct. 30, 2017


Inventor's Signature

Print full name of second inventor: Joshua Baergen
Residence: Edmonton, Alberta, Canada
Citizenship: Canada
Mailing Address: 4908 115 Street NW
Edmonton, Alberta, Canada T6H 3P2

I Jonathan Lichtner (name) whose residential address is
3927 149A St. NW Edmonton, AB T6R 1J8
was personally present and did see Joshua Baergen (name of person signing the assignment)
who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at Edmonton (location of witness signature)

on this day Oct. 30 of 2017 (date of signature)

I John Afagnis (name) whose residential address is
69 Riverpointe Dr. Fort Saskatchewan, AB T8L 4T13
was personally present and did see Joshua Baergen (name of person signing the assignment)
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 (signature of second witness)

Signed at Edmonton (location of witness signature)

on this day October 30 of 2017 (date of signature)

Date: Oct 30, 2017



Inventor's Signature

Print full name of third inventor: Paul A. Shelley
Residence: Edmonton, Alberta, Canada
Citizenship: Canada
Mailing Address: 11335 - 35 Avenue NW
Edmonton, Alberta, Canada T6J 3M9

I John Argyanis (name) whose residential address is

69 Rivercote Dr. Fort Saskatchewan, AB T8L 4M3
was personally present and did see Paul A. Shelley (name of person signing the assignment)
who is personally known to me, execute the above assignment.

 _____ (signature of first witness)

Signed at Edmonton (location of witness signature)

on this day October 30 of 20 17 (date of signature)

I Jonathan Lichtner (name) whose residential address is

3927 149A St NW Edmonton, AB T6R 1J8
was personally present and did see Paul A. Shelley (name of person signing the assignment)
who is personally known to me, execute the above assignment.

 _____ (signature of second witness)

Signed at Edmonton (location of witness signature)

on this day Oct 30 of 20 17 (date of signature)