

07/08/2011



U.S. PTO
13/135156
06/27/2011

103628546
PATENTS ONLY

Docket No.: EMS-395US

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

624-11

1. Name of conveying party(ies)/Execution Date(s):
(a) Oleg Alexandrovich EFREMOV
(b) Artem Akopovich ZARAFYANTS
(c) Sergey ZAPOROZHTEV
(d) Mark A. PARENTI
Execution Date(s): (a) (b) and (c) June 20, 2011; (d) June 24, 2011
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
Name: EMC Corporation
Internal Address:
Street Address:
176 South Street
Hopkinton, MA 01748
Country: USA
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other: _____

13/135156

4. Application or patent number(s):
A. Patent Application No.(s)
Additional numbers attached? Yes No

This document is being filed together with a new application
B. Patent No.(s)

5. Name and address to whom correspondence concerning document should be mailed:
Name: Muirhead and Saturnelli, LLC
Internal Address:
Street Address: 200 Friberg Parkway
Suite 1001
City: Westborough
State: Massachusetts Zip: 01581
Fax Number: 508-898-8602

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 1.21(h) & 3.41).....\$ 40.00
 Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)
8. Payment Information
a. Credit Card Last 4 Numbers _____
Expiration Date _____
b. Deposit Account Number _____ 05-0889
Authorized User Name Anne E. Saturnelli

9. Signature:
Anne E. Saturnelli, Reg. No. 41,290
Name of Person Signing

Signature
07/08/2011 AMULLINS 00000051 050889 13135156
01 FC:0021
June 27, 2011
Date
e

Total number of pages including cover sheet, attachments, and documents: 6

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services
Director of the U.S. Patent and Trademark Office
P.O. Box 1450, Alexandria, VA 22313-1450

ASSIGNMENT

WHEREAS, we, Oleg Alexandrovich EFREMOV, Artem Akopovich ZARAFYANTS, Sergy ZAPOROZHTEV and Mark A. Parenti, 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 **TECHNIQUES FOR DATA STORAGE SYSTEMS USING VIRTUALIZED ENVIRONMENTS**, 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 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;

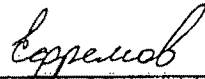
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including 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: 6/20/2011



Inventor's Signature

Print full name of first inventor:

Oleg Alexandrovich EFREMOV

Residence:

Rashetova, 11-2-62

Saint-Petersburg, 194017 RUSSIA

Citizenship:

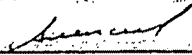
RUSSIA

Mailing Address:

Same

I, Sergey Alexeev (name) whose residential address is 195281, St-Petersburg, Metallikov 84-9, Russia

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



(signature of first witness)

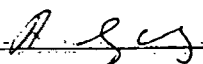
Signed at St-Petersburg, Russia (location of witness signature)

On this day 20 June of 20 11 (date of signature)

I, Andrey Yarovoy (name) whose residential address is

975 Sedova st Apt 8, Saint Petersburg, Russia 194172

Was personally present and did see Oleg Alexandrovich EFREMOV (name of person signing the assignment) who is personally known to me, execute the above assignment.



(signature of second witness)

Signed at Saint Petersburg, Russia (location of witness signature)

On this day 20 June of 20 11 (date of signature)

Date: 6/20 2011



Inventor's Signature

Print full name of second inventor:
Residence:
Citizenship:
Mailing Address:

Artem Akopovich ZARAFYANTS
194354, St. Petersburg
Russia, Engelsa pr 115/1, Apt. 148, RUSSIA
Russia
Same


I, Sergey Alexeev (name) whose residential address is
195229 St-Petersburg, Metallistov 84-9, Russia
was personally present and did see Artem Akopovich ZARAFYANTS (name of person signing
the assignment) who is personally known to me, execute the above assignment.



(signature of first witness)

Signed at St-Petersburg, Russia (location of witness signature)
On this day 20 June of 2011 (date of signature)

I, Andrey Yaruvoy (name) whose residential address is
97/15 Sejava st, Apt. 8, Saint Petersburg, Russia, 197172
was personally present and did see Artem Akopovich ZARAFYANTS (name of person signing
the assignment) who is personally known to me, execute the above assignment.



(signature of second witness)

Signed at Saint Petersburg, Russia (location of witness signature)
On this day 20 June of 2011 (date of signature)

Date: 6/20/2011



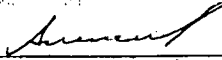
Inventor's Signature

Print full name of third inventor:
Residence:

Sergey ZAPOROZHTEV
191028, Saint Petersburg
Fontanka River Emb., 24-11, RUSSIA
Russia
Same

Citizenship:
Mailing Address:

I, Sergey Alexeev (name) whose residential address is
195221, St-Petersburg, Metallistov 84-9, Russia
was personally present and did see Sergey ZAPOROZHTEV (name of person signing the
assignment) who is personally known to me, execute the above assignment.



(signature of first witness)

Signed at: St-Petersburg, Russia (location of witness signature)
On this day 20 June of 2011 (date of signature)


I, Andrey Yarovoy (name) whose residential address is
97/5 Sedova st. Apt. 8, Saint Petersburg, Russia 194172
Was personally present and did see Sergey ZAPOROZHTEV (name of person signing the
assignment) who is personally known to me, execute the above assignment.



(signature of second witness)

Signed at: Saint Petersburg, Russia (location of witness signature)
On this day 20 June of 2011 (date of signature)

Date: 6/24/11




Inventor's Signature

Print full name of second inventor: Mark A. Parenti
Residence: 27 Orchard Street
Milford, NH 03055
Citizenship: USA
Mailing Address: Same

STATE OF NEW HAMPSHIRE
COUNTY OF Rockingham

On this 24th day of June, 2011, then personally appeared before me the above-named Mark A Parenti known to me through satisfactory evidence of identification: employee identification card; driver's license; (other) Mark Alan Parenti to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.



Notary Public

Print Name: Mark Davis

My Commission expires:

MARK C. DAVIS
NOTARY PUBLIC
STATE OF NEW HAMPSHIRE
MY COMMISSION EXPIRES 3/24/2015