# Patent Assignment

**Electronic Version v1.1**

**Stylesheet Version v1.1**

## Submission Type
- **New Assignment**

## Nature of Conveyance
- **Assignment**

### Conveying Party Data

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniel A. MUNTZ</td>
<td>04/06/2012</td>
</tr>
<tr>
<td>Alex BURLYGA</td>
<td>04/02/2012</td>
</tr>
<tr>
<td>Sairam VEERASWAMY</td>
<td>01/26/2012</td>
</tr>
<tr>
<td>David NOVECK</td>
<td>01/26/2012</td>
</tr>
</tbody>
</table>

### Receiving Party Data

- **Name**: EMC Corporation
- **Street Address**: 176 South Street
- **City**: Hopkinton
- **State/Country**: MASSACHUSETTS
- **Postal Code**: 01748

## Property Numbers
- **Total**: 1

<table>
<thead>
<tr>
<th>Property Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Number</td>
<td>13339857</td>
</tr>
</tbody>
</table>

## Correspondence Data

- **Fax Number**: (508)898-8602
- **Phone**: 5088988601
- **Email**: docketing@westboro-ip.com

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*

- **Correspondent Name**: Muirhead and Saturnelli, LLC
- **Address Line 1**: 200 Friberg Parkway
- **Address Line 2**: Suite 1001
- **Address Line 3**: Westborough, MASSACHUSETTS 01581

## Attorney Docket Number
- **EMS-425US; EMC-11-096**

## Name of Submitter
- Anne E. Saturnelli
ASSIGNMENT

WHEREAS, we, Daniel A. MUNTZ, Alex BURLYGA, David NOVECK and Sairam VEERASWAMY 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 DISTRIBUTED FILE SYSTEM HAVING SEPARATE DATA AND METADATA AND PROVIDING A CONSISTENT SNAPSHOT THEREOF, the specification of which:

[ ] is being executed on even date herewith and is about to be filed in the United States Patent Office;
[X] was filed on December 29, 2011 as U.S. Application No. 13/339,857;
[ ] 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.

AND, we hereby authorize attorneys of Muirhead and Saturnelli, LLC to insert here in parenthesis (______________________________) 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:
Date: 4/16/2012

Print full name of first inventor: Daniel A. MUNTZ
Residence: 10301 Vicksburg Drive
            Cupertino, CA 95014
Citizenship: USA
Mailing Address: Same

STATE OF CALIFORNIA
COUNTY OF Santa Clara

On this 6 day of April, 2012, before me appeared Daniel A. MUNTZ
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument
the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Deanna L. Santos
Notary Public
Print Name: Deanna L. Santos
My Commission expires: 8/21/2012

[Notary Seal]

PATENT
REEL: 028034 FRAME: 0280
Date: 04/02/2012

Inventor's Signature

Print full name of second inventor: Alex BURLYGA
Residence: 3440 Turner Court
            Fremont, CA 94536
Citizenship: USA
Mailing Address: Same

STATE OF CALIFORNIA
COUNTY OF Santa Clara

On this 2 day of April, 2012, before me appeared Alex BURLYGA who
proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument
the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Deanna L. Santos
Notary Public

Print Name: Deanna L. Santos
My Commission expires: 8/21/2012
Date: ____________________________

Inventor's Signature: ____________________________

Print full name of third inventor: David NOVECK
Residence: 26 Locust Avenue
            Lexington, MA 02421
            U.S.A.
Mailing Address: Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF ____________

On this ____ day of __________, 2012, then personally appeared before me the above-named David NOVECK known to me through satisfactory evidence of identification [ ] employee identification card; [ ] driver's license; [ ] (other) ____________________________ 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:
My Commission expires:
Date: ____________________________

Inventor's Signature

Print full name of fourth inventor: Sairam VEERASWAMY
Residence:
90 Buttercup Lane
South Grafton, MA 01560
Citizenship:
India
Mailing Address:
Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _______________________

On this ___ day of __________, 2012, then personally appeared before me the above-named Sairam VEERASWAMY known to me through satisfactory evidence of identification [ ] employee identification card; [ ] driver's license; [ ] (other)
____________________ 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:
My Commission expires:
ASSIGNMENT

WHEREAS, we, Saïram VEERASWAMY, David NOVECK, Daniel A. MUNTZ and Alex BURLYGA 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 DISTRIBUTED FILE SYSTEM HAVING SEPARATE DATA AND METADATA AND PROVIDING A CONSISTENT SNAPSHOT THEREOF, the specification of which:

[ ] is being executed on even date herewith and is about to be filed in the United States Patent Office;

[ X ] was filed on December 29, 2011 as U.S. Application No. 13/339,857;

[ ] 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.

AND, we hereby authorize attorneys of Muirhead and Saturnelli, LLC to insert here in parenthesis (__________________________) 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:

Date: 1/26/2012

Inventor's Signature

Print full name of first inventor: Sairam VEERASWAMY

Residence: 90 Buttercup Lane
South Grafton, MA 01560

Citizenship: India

Mailing Address: Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Middlesex

On this 26th day of January, 2012, then personally appeared before me the above-named Sairam VEERASWAMY known to me through satisfactory evidence of identification [ ] employee identification card; [X] driver's license; [ ] (other) 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.

Linette S. Kelley
Notary Public
Print Name: Linette S. Kelley
My Commission expires: July 13, 2018

LINETTE S. KELLEY
Notary Public
COMMONWEALTH OF MASSACHUSETTS
My Commission Expires
July 13, 2018

PATENT
REEL: 028034 FRAME: 0285
Date: 1/26/2012

Print full name of second inventor: David NOVECK
Residence: 26 Locust Avenue
Lexington, MA 02421
Citizenship: U.S.A.
Mailing Address: Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Middlesex

On this 26th day of January, 2012, then personally appeared before me the above-named David NOVECK known to me through satisfactory evidence of identification [X] employee identification card; [ ] driver’s license; [ ] (other) ____________________________ 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.

Linette S. Kelley
Notary Public
Print Name: Linette S. Kelley
My Commission expires: July 13, 2018
Date: ____________________  

Inventor's Signature:  

Print full name of third inventor: Daniel A. MUNTZ  
Residence: 10301 Vicksburg Drive  
Cupertino, CA 95014  
USA  
Same  

STATE OF CALIFORNIA  
COUNTY OF ____________________  

On this ___ day of ______________, 2012, then personally appeared before me the above-named Daniel A. MUNTZ known to me through satisfactory evidence of identification (__) employee identification card; (__) driver's license; (__) (other) ____________________ 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:  
My Commission expires:
Date: ______________________

Inventor's Signature

Print full name of fourth inventor: Alex BURLYGA
Residence: 3440 Turner Court
            Fremont, CA 94536
Citizenship: USA
Mailing Address: Same

STATE OF CALIFORNIA
COUNTY OF ____________________

On this ___ day of ____________, 2012, then personally appeared before me the above-
named Alex BURLYGA known to me through satisfactory evidence of identification:
[ ] employee identification card; [ ] driver's license; [ ] (other) ______________________
__________________ 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:
My Commission expires: