

PATENT ASSIGNMENT

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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>Sitaram Pawar</td> <td>12/20/2012</td> </tr> <tr> <td>Philippe Armangau</td> <td>12/20/2012</td> </tr> <tr> <td>Jean-Pierre Bono</td> <td>12/20/2012</td> </tr> <tr> <td>Christopher Seibel</td> <td>12/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Sitaram Pawar	12/20/2012	Philippe Armangau	12/20/2012	Jean-Pierre Bono	12/20/2012	Christopher Seibel	12/20/2012
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Sitaram Pawar	12/20/2012										
Philippe Armangau	12/20/2012										
Jean-Pierre Bono	12/20/2012										
Christopher Seibel	12/20/2012										
RECEIVING PARTY DATA											
Name:	EMC Corporation										
Street Address:	176 South Street										
Internal Address:	Office of the General Counsel										
City:	Hopkinton										
State/Country:	MASSACHUSETTS										
Postal Code:	01748										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13730086</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13730086						
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Application Number:	13730086										
CORRESPONDENCE DATA											
Fax Number:	5082937189										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	508-435-1000										
Email:	Docketing@emc.com										
Correspondent Name:	EMC CORPORATION OFFICE OF THE GENERAL CO										
Address Line 1:	176 SOUTH STREET										
Address Line 4:	HOPKINTON, MASSACHUSETTS 01748										
ATTORNEY DOCKET NUMBER:	EMC-12-699										
NAME OF SUBMITTER:	Deepika Bhayana										
Total Attachments: 6											

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ASSIGNMENT

WHEREAS, we, Sitaram Pawar, Philippe Armangau, Jean-Pierre Bono and Christopher Seibel 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 **MANAGING FILES OF FILE SYSTEMS** (Application), 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,

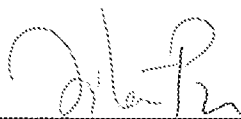
reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

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;

AND, we hereby authorize our attorneys, EMC Corporation, to insert here in parentheses (_____) 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: 12/20/2012

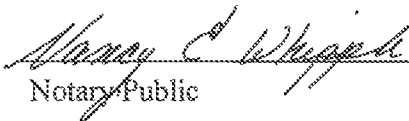


Inventor's Signature

Print full name of first inventor: **Sitaram Pawar**
Residence: 28 Edgemont Road, Shrewsbury, MA 01545
Citizenship: IN
Mailing Address: Same as above

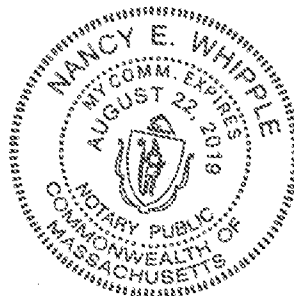
STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 20th day of December, 2012, then personally appeared before me the above-named Sitaram Pawar 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: Nancy E. Whipple
My Commission expires 8/22/2019



Date: 12/20/2012

Philippe Armangau
Inventor's Signature

Print full name of second inventor: **Philippe Armangau**

Residence: 51 Seminole Road, Acton, MA 01720

Citizenship: US

Mailing Address: Same as above

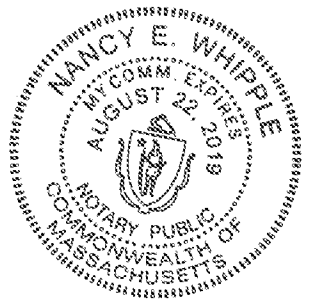
STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 20th day of December, 2012, then personally appeared before me the above-named Philippe Armangau 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.

Nancy E. Whipple
Notary Public

Print Name: Nancy E. Whipple

My Commission expires 8/22/2019



Date: 12/20/12

[Signature]
Inventor's Signature

Print full name of third inventor:

Jean-Pierre Bono

Residence:

33 Wachusett View Drive, Westborough, MA
01581

Citizenship:

US

Mailing Address:

Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

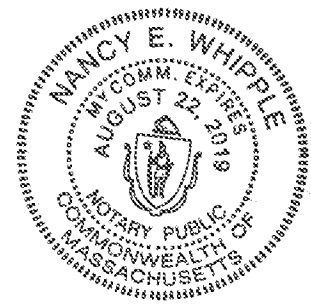
On this 20th day of December, 2012, then personally appeared before me the above-named Jean-Pierre Bono known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other)

_____ 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.

Nancy E. Whipple
Notary Public

Print Name: Nancy E. Whipple

My Commission expires 8/22/2019



Date: 12/20/12

Christopher Seibel
Inventor's Signature

Print full name of fourth inventor: **Christopher Seibel**
Residence: 7 Jean Road, Walpole, MA 02081
Citizenship: US
Mailing Address: Same as above

STATE/Commonwealth OF Massachusetts
COUNTY OF Middlesex

On this 20th day of December, 2012, then personally appeared before me the above-named Christopher Seibel 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.

Nancy E. Whipple
Notary Public
Print Name: Nancy E. Whipple
My Commission expires 8/22/2019

