

## PATENT ASSIGNMENT

Electronic Version v1.1  
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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>Lyublena R. Antova</td> <td>06/26/2012</td> </tr> <tr> <td>Konstantinos P. Krikellas</td> <td>06/26/2012</td> </tr> <tr> <td>Florian M. Waas</td> <td>06/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	Lyublena R. Antova	06/26/2012	Konstantinos P. Krikellas	06/26/2012	Florian M. Waas	06/26/2012
Name	Execution Date								
Lyublena R. Antova	06/26/2012								
Konstantinos P. Krikellas	06/26/2012								
Florian M. Waas	06/26/2012								
RECEIVING PARTY DATA									
Name:	EMC Corporation								
Street Address:	176 South Street								
Internal Address:	Office of 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>13538048</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13538048				
Property Type	Number								
Application Number:	13538048								
CORRESPONDENCE DATA									
Fax Number:	(650)326-2799								
Phone:	(650) 326-2701								
Email:	Byoung@young-iplaw.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	Barry N. Young								
Address Line 1:	P.O. Box 61197								
Address Line 4:	Palo Alto, CALIFORNIA 94306								
ATTORNEY DOCKET NUMBER:	E003-1628US								
NAME OF SUBMITTER:	Barry N. Young								
Total Attachments: 5									

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**ASSIGNMENT**

**WHEREAS**, we, **Lyublena R. Antova, Konstantinos P. Krikellas** and **Florian M. Waas** (Inventors/Assignors), 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

**AUTOMATIC CAPTURE OF MINIMAL  
PORTABLE EXECUTABLE BUG REPROS**

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 June 29, 2012 as U.S. Application No. 13/538,048;
- 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:

PATENT/Joint Assignment  
Attorney Docket No.: E003-1628US  
EMC Docket No.: EMC-12-357

Date: 06/26/12

Lyublena Antova  
Inventor's Signature

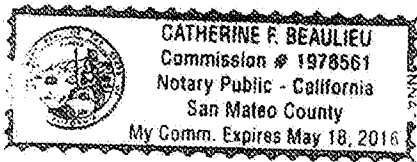
Print full name of first inventor: **Lyublena R. Antova**  
Residence: US  
Citizenship: Bulgaria  
Mailing Address: 1267 Ayala Dr. Apt 2  
Sunnyvale, CA 94086

STATE OF CALIFORNIA  
COUNTY OF SAN MATEO

On this 26 day of JUNE, 2012, before me appeared Lyublena R. Antova 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.

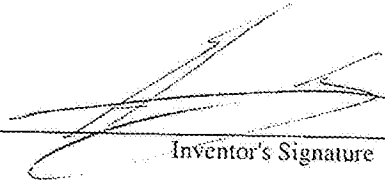


Catherine F. Beaulieu, NOTARY PUBLIC  
Notary Public

Print Name: CATHERINE F. Beaulieu  
My Commission expires 5/18/16

PATENT/Joint Assignment  
Attorney Docket No.: E003-1628US  
EMC Docket No.: EMC-12-357

Date: 6/26/2012

  
Inventor's Signature

Print full name of second inventor:

**Konstantinos P. Krikellas**

Residence:

US

Citizenship:

Greece

Mailing Address:

400 E. Hillsdale Blvd  
San Mateo, CA 94403

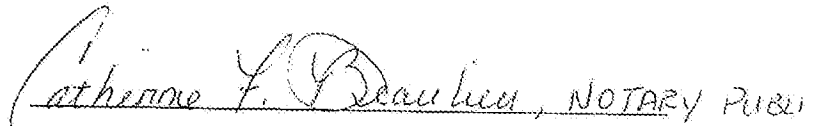
STATE OF CALIFORNIA  
COUNTY OF SAN MATEO

On this 26 day of JUNE, 2012, before me appeared Konstantinos P. Krikellas 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.

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WITNESS my hand and official seal.




  
Catherine F. Beaulieu, NOTARY PUBLIC  
Notary Public

Print Name: CATHERINE F. BEAULIEU

My Commission expires 5/15/16

PATENT/Joint Assignment  
Attorney Docket No.: E003-1628US  
EMC Docket No.: EMC-12-357

Date: 6/26/2012

  
\_\_\_\_\_  
Inventor's Signature

Print full name of second inventor:

**Florian M. Waas**

Residence:

US

Citizenship:

US

Mailing Address:

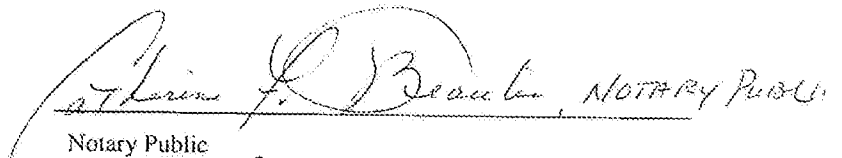
631 Folsom St., Apt. 19A  
San Francisco, CA 94107

STATE OF CALIFORNIA  
COUNTY OF SAN MATEO

On this 26 day of JUNE, 2012, before me appeared Florian M. Waas 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~~<sup>they</sup> executed the same in his/~~her~~<sup>their</sup> authorized capacity(ies), and that by his/~~her~~<sup>their</sup> signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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\_\_\_\_\_  
Notary Public



Print Name: CATHERINE F. BEAULIEU  
My Commission expires 5/18/16