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Docket No.: EMS-380US

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

| | | |
|---|--|---|
| <p>1. Name of conveying party(ies)/Execution Date(s):</p> <p>(a) Patrick Brian RIORDAN U.S. PTO (b) Ian WIGMORE 13/065549 (c) Xiali HE 03/24/2011 (d) Arieh DON (e) Steven M. GOLDBERG</p> <p>Execution Date(s): (a) (b) (d) (e) March 18, 2011 and (c) March 24, 2011 Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | | <p>2. Name and address of receiving party(ies):</p> <p>Name: EMC Corporation Internal Address: Street Address: 176 South Street Hopkinton, MA 01748 Country: USA</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> |
| <p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other: _____</p> | | |
| <p>4. Application or patent number(s): <input checked="" type="checkbox"/> This document is being filed together with a new application</p> <p>A. Patent Application No.(s) B. Patent No.(s)</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | | |
| <p>5. Name and address to whom correspondence concerning document should be mailed:</p> <p>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</p> | <p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37-CFR 1.21(h) & 3.41).....S 40.00 <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)</p> <p>8. Payment Information a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number 05-0889 Authorized User Name Anne E. Saturnelli</p> | |
| <p>9. Signature: <u>Anne E. Saturnelli, Reg. No. 41,290</u> Name of Person Signing <u>[Signature]</u> Signature <u>March 24, 2011</u> Date</p> | | |

Total number of pages including cover sheet, attachments, and documents: 7
Documents to be recorded (including cover sheet) should be faxed to (703) 306-5295, 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, Patrick Brian Riordan, Ian Wigmore, Xiali He, Arieh Don and Steven M^{MA} Goldberg, 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 PERFORMING HOST PATH DETECTION VERIFICATION**, the specification of which:

- [X] 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: 3/18/2011

Patrick Brian Riordan
Inventor's Signature

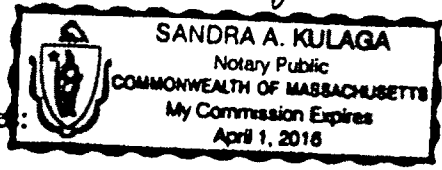
Print full name of first inventor: Patrick Brian RIORDAN
Residence: 27 Howland Road
West Newton, MA 02465
Citizenship: Ireland
Mailing Address: Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF MIDDLESEX

On this 18 day of MARCH, 2011 then personally appeared before me the above-named Patrick Brian RIORDAN known to me through satisfactory evidence of identification employee identification card; driver's license; (other) PERSONALLY KNOWN TO ME 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.

Sandra A. Kulaga
Notary Public

Print Name:
My Commission expires:



Date: 3/18/2011




Inventor's Signature

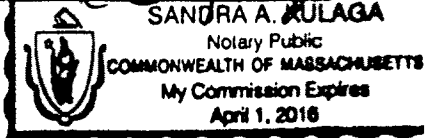
Print full name of second inventor: **Ian WIGMORE**
Residence: **5 Butterfield Drive**
Westborough, MA 01581
Citizenship: **United Kingdom/U.S.A.**
Mailing Address: **Same**

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF MIDDLESEX

On this 18 day of MARCH, 2011, then personally appeared before me the above-named Ian WIGMORE known to me through satisfactory evidence of identification employee identification card; driver's license; (other) PERSONALLY KNOWN TO ME 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: **SANDRA A. KULAGA**
My Commission Expires **April 1, 2016**



Date: 3/24/11

[Signature]
Inventor's Signature

Print full name of third inventor: **Xiali HE**
Residence: **33 Howarth Drive**
Upton, MA 01568
Citizenship: **China U.S.A ^{Xh}**
Mailing Address: **Same**

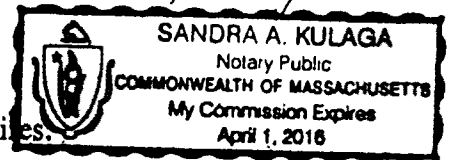
COMMONWEALTH OF MASSACHUSETTS
COUNTY OF MIDDLESEX

On this 24 day of MARCH, 2011, then personally appeared before me the above-named Xiali HE 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.

[Signature]
Notary Public

Print Name:

My Commission expires.



Date: 3-18-11

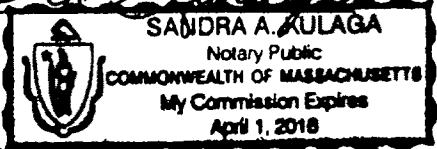
[Signature]
Inventor's Signature

Print full name of fourth inventor: **Arieh DON**
Residence: **45 Dexter Road**
Newton, MA 02460
Citizenship: **U.S.A.**
Mailing Address: **Same**

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF MIDDLESEX

On this 18 day of MARCH, 2011, then personally appeared before me the above-named Arieh DON known to me through satisfactory evidence of identification, employee identification card; driver's license; (other) PERSONALLY KNOWN TO ME 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.

[Signature]
Notary Public
Print Name: **SANDRA A. KULAGA**
My Commission expires: **April 1, 2016**



Date: 3/18/11

Steven M. Goldberg
Inventor's Signature

Print full name of fifth inventor: Steven M. GOLDBERG
Residence: 8 Old Central Turnpike
Ashland, MA 01721
Citizenship: U.S.A.
Mailing Address: Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF MIDDLESEX

On this 18 day of MARCH, 2011, then personally appeared before me the above-named Steven M. GOLDBERG 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.

Sandra A. Kulaga

Notary Public

Print Name:

My Commission expires

