

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>Michael E. BAPPE</td> <td>09/20/2012</td> </tr> <tr> <td>Ronald CHAMBERS</td> <td>09/25/2012</td> </tr> <tr> <td>Vinay G. RAO</td> <td>09/21/2012</td> </tr> </tbody> </table>		Name	Execution Date	Michael E. BAPPE	09/20/2012	Ronald CHAMBERS	09/25/2012	Vinay G. RAO	09/21/2012		
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<table border="1"> <tr> <td>Name:</td> <td>EMC Corporation</td> </tr> <tr> <td>Street Address:</td> <td>176 South Street</td> </tr> <tr> <td>City:</td> <td>Hopkinton</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>01748</td> </tr> </table>		Name:	EMC Corporation	Street Address:	176 South Street	City:	Hopkinton	State/Country:	MASSACHUSETTS	Postal Code:	01748
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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>13627594</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13627594						
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CORRESPONDENCE DATA											
Fax Number:	5083664688										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	5086162900										
Email:	docket@bainwoodhuang.com										
Correspondent Name:	Bruce D. Rubenstein, Esq.										
Address Line 1:	Bainwood, Huang & Associates, LLC										
Address Line 2:	2 Connector Road										
Address Line 4:	Westborough, MASSACHUSETTS 01581										
ATTORNEY DOCKET NUMBER:	1003-180										
NAME OF SUBMITTER:	Bruce D. Rubenstein, Esq.										
Total Attachments: 10 source=1003-180-Assignment#page1.tif											

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ASSIGNMENT

WHEREAS, we, Vinay G. Rao, Michael E. Bappe, and Ronald Chambers 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 **DETECTING BOGUS IOS IN A MULTIPATHING DRIVER** 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, USA 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 Bainwood Huang & Associates LLC to insert here in parentheses (13/627,594 September 26, 2012) 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: 9-20-12

[Handwritten Signature]

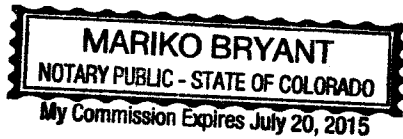
Inventor's Signature

Print full name of second inventor: Michael E. Bappe
Residence: 1017 Knobcone Pl., Loveland, CO, 80538
Citizenship: US
Mailing Address: Same as above

STATE/Commonwealth of Colorado
COUNTY OF Lasimer

On this 20 day of September, 2012, then personally appeared before me the above-named **MICHAEL E. BAPPE** 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.

[Handwritten Signature]
Notary Public



Print Name: Mariko Bryant
My Commission expires 7/20/2015

Date: _____

Inventor's Signature

Print full name of first inventor: Vinay G. Rao
Residence: C202, ND Oliva, 29/2A, Somsandrapalya,
HSR Layout, Bangalore, Karnataka, 560102,
IN
Citizenship: IN
Mailing Address: Same as above

I _____ (name) whose residential address is _____
_____ was personally present and did see _____ (name of
person signing the assignment) who is personally known to me, execute the above
assignment.

_____ (signature of first witness)

Signed at _____ (location of witness signature)

on this day _____ of 2012. (date of signature)

I _____ (name) whose residential address is _____
_____ was personally present and did see _____ (name of
person signing the assignment) who is personally known to me, execute the above
assignment.

_____ (signature of second witness)

Signed at _____ (location of witness signature)

on this day _____ of 2012. (date of signature)

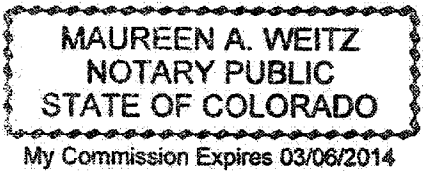
Date: 9-25-2012

Ronald Chambers
Inventor's Signature

Print full name of second inventor: Ronald Chambers
Residence: 129 Frey Avenue, Fort Collins, CO, 80521
Citizenship: US
Mailing Address: Same as above

STATE/Commonwealth of Colorado
COUNTY OF Lincoln

On this 25 day of September, 2012, then personally appeared before me the above-named **RONALD CHAMBERS** known to me through satisfactory evidence of identification employee identification card; driver's license; (other) # 921842453 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.



Maureen A. Weitz
Notary Public 19944001716
Print Name: Maureen A. Weitz
My Commission expires 3/6/14

ASSIGNMENT

WHEREAS, we, Vinay G. Rao, Michael E. Bappe, and Ronald Chambers 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 **DETECTING BOGUS IOS IN A MULTIPATHING DRIVER** the specification of which:

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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;

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IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: _____

Inventor's Signature

Print full name of second inventor: Michael E. Bappe
Residence: 1017 Knobcone Pl., Loveland, CO, 80538
Citizenship: US
Mailing Address: Same as above

STATE/Commonwealth of _____
COUNTY OF _____

On this _____ day of _____, 2012, then personally appeared before me the above-named **MICHAEL E. BAPPE** 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: 21/09/2012

G. Vinay Rao
Inventor's Signature

Print full name of first inventor: Vinay G. Rao
Residence: C202, ND Oliva, 29/2A, Somsandrapalya,
HSR Layout, Bangalore, Karnataka, 560102,
IN
Citizenship: IN
Mailing Address: Same as above

I KANGYAMPETA SRINIVAS (name) whose residential address is
8, 33 A CROSS 11 MAIN, JAYANAGAR 4 T BLOCK, BANGALORE - 560042
was personally present and did see G. VINAY RAO (name of
person signing the assignment) who is personally known to me, execute the above
assignment.

Srinivas (signature of first witness)

Signed at BANGALORE (location of witness signature)

on this day 21 SEPTEMBER of 2012. (date of signature)

I ASITH BALAKRISHNAN (name) whose residential address is
T4, D BLOCK, HIMAGIRI GREEN FOREST, JP NAGAR 7th PHASE, BANGALORE - 560078
was personally present and did see G. VINAY RAO (name of
person signing the assignment) who is personally known to me, execute the above
assignment.

Asith (signature of second witness)

Signed at BANGALORE (location of witness signature)

on this day 21 September of 2012. (date of signature)

Date: _____

Inventor's Signature

Print full name of second inventor: Ronald Chambers
Residence: 129 Frey Avenue, Fort Collins, CO, 80521
Citizenship: US
Mailing Address: Same as above

STATE/COMMONWEALTH OF _____
COUNTY OF _____

On this _____ day of _____, 2012, then personally appeared before me the above-named **RONALD CHAMBERS** 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 ___ / ___ / ___