

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DAVID M BIERNACKI	08/13/2019
DEBRA ROBITAILLE	08/13/2019
MARK ARAKELIAN	08/26/2019
VENKAT REDDY	08/08/2019
BELAGAPU KUMAR	08/12/2019
SUHAS K B	08/08/2019
TAMILARASAN JANAKIRAMAN	09/05/2019
RECEIVING PARTY DATA	
Name:	EMC IP HOLDING COMPANY LLC
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16543712
CORRESPONDENCE DATA	
Fax Number:	(978)264-4001
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	978-264-4001
Email:	john@gorecki.us
Correspondent Name:	ANDERSON GORECKI LLP
Address Line 1:	2 DUNDEE PARK, SUITE 301A
Address Line 2:	ATTN: JOHN C GORECKI
Address Line 4:	ANDOVER, MASSACHUSETTS 01810
ATTORNEY DOCKET NUMBER:	130-205
NAME OF SUBMITTER:	JOHN C GORECKI, REG NO. 38471
SIGNATURE:	/John C Gorecki/
DATE SIGNED:	09/27/2019

PATENT

Total Attachments: 9

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ASSIGNMENT

WHEREAS, we, **David M. Biernacki, Debra Robitaille, Mark Arakelian, Venkat Reddy, Belagapu Kumar, Suhas K B, and Tamilarasan Janakiraman**, 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

**METHOD AND APPARATUS FOR PREDICTING ERRORS
IN TO-BE-DEVELOPED SOFTWARE UPDATES,**

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 IP HOLDING COMPANY LLC** (hereinafter "ASSIGNEE"), a Delaware limited liability company 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;

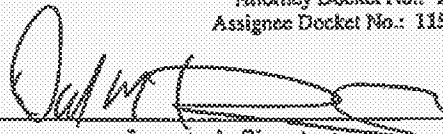
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, 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 do hereby appoint as our attorneys Holmes W. Anderson and John C. Gorecki of Anderson Gorecki LLP, whose full office address is 2 Dundee Park, Suite 301A, Andover, MA 01810, and authorize them to prosecute the patent application(s) and correct errors in this Assignment and to insert any further identification and other information necessary or desirable to make this Assignment suitable for recording in a domestic or foreign Patent Office.

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

Date: 8/13/2019



Inventor's Signature

Print full name of inventor

David M. Biernacki

Residence

Woonsocket, RI

Citizenship

USA

Mailing Address

176 South Street

Hopkinton, MA 01748

I, MARY MCCORMACK (name of first witness), whose residential address is
23 JESSEY ROAD - UPTON, MA 01569
was personally present and did see David M. Biernacki (name of person signing the
assignment), who is personally known to me, execute the above assignment.

Mary McCormack (signature of first witness)
Signed at 176 SOUTH ST - HOPKINTON, MA 01748 (location of witness signature)
on this day, AUGUST 13, 2019 (date of signature).

I, Judith Heston (name of second witness), whose residential address is
39 Cloverleaf Rd. Leominster, MA 01453
was personally present and did see David M. Biernacki (name of person signing the
assignment), who is personally known to me, execute the above assignment.

Judith Heston (signature of second witness)
Signed at 176 South St Hopkinton MA (location of witness signature)
on this day, August 13, 2019, 2019 (date of signature).

Date: August 13, 2019

Debra Robitaille
Inventor's Signature

Print full name of inventor **Debra Robitaille**
Residence **Hopkinton, MA**
Citizenship **USA**
Mailing Address **176 South Street**
Hopkinton, MA 01748

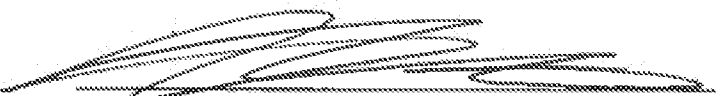
I, Judith Hytinen (name of first witness), whose residential address is
39 Cloverleaf Rd. Leominster, MA 01453
was personally present and did see **Debra Robitaille** (name of person signing the assignment),
who is personally known to me, execute the above assignment.

Judith Hytinen (signature of first witness)
Signed at 176 South St Hopkinton, MA (location of witness signature)
on this day, August 13, 2019 (date of signature).

I, MARY MCCORD (name of second witness), whose residential address is
23 SOUTH DRIVE - HOPKINTON, MA 01908
was personally present and did see **Debra Robitaille** (name of person signing the assignment),
who is personally known to me, execute the above assignment.

Mary McCord (signature of second witness)
Signed at 176 SOUTH ST - HOPKINTON, MA (location of witness signature)
on this day, AUGUST 13, 2019 (date of signature).

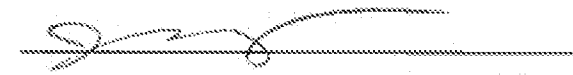
Date: 8/26/2019


Inventor's Signature

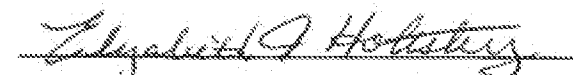
Print full name of inventor **Mark Arakelian**
Residence **Shirley, MA**

Citizenship **USA**
Mailing Address **176 South Street**
Hopkinton, MA 01748

I, Jennifer Pixley (name of first witness), whose residential address is
11 Longview Drive, Milford, MA 01757
was personally present and did see **Mark Arakelian** (name of person signing the assignment),
who is personally known to me, execute the above assignment.

 (signature of first witness)
Signed at 176 South St, Hopkinton MA (location of witness signature)
on this day, August 26, 2019 (date of signature).

I, Elizabeth T. Hartsbeey (name of second witness), whose residential address is
351 Purchase St, Milford, MA 01757
was personally present and did see **Mark Arakelian** (name of person signing the assignment),
who is personally known to me, execute the above assignment.

 (signature of second witness)
Signed at 176 South Street, Hopkinton, MA (location of witness signature)
on this day, August 26, 2019 (date of signature).

Date: 8-Aug-2019

V. Reddy
Inventor's Signature

Print full name of inventor

Venkat Reddy

Residence

Bangalore, India

Citizenship

India

Mailing Address

176 South Street

Hopkinton, MA 01748

I, Tamilarasan Janakiraman (name of first witness), whose residential address is
13th cross, Kaggadaspura, Bangalore - India.
was personally present and did see **Venkat Reddy** (name of person signing the assignment), who
is personally known to me, execute the above assignment.

T. Janakiraman (signature of first witness)

Signed at Bangalore, India (location of witness signature)

on this day, 8th August, 2019 (date of signature).

I, SUHAS .K. B (name of second witness), whose residential address is
#158 Jakkasandra Kormangla 1st block, Bangalore - India
was personally present and did see **Venkat Reddy** (name of person signing the assignment), who
is personally known to me, execute the above assignment.

Suhask (signature of second witness)

Signed at Bangalore, India (location of witness signature)

on this day, 8th August, 2019 (date of signature).

Date: 12 - Aug - 2019

Belagapu Kumar
Inventor's Signature

Print full name of inventor

Belagapu Kumar

Residence

Bangalore, India

Citizenship

India

Mailing Address

176 South Street
Hopkinton, MA 01748

I, Tamilarasan Janakiraman (name of first witness), whose residential address is
13th cross Kaggadaspura, Bangalore, India.
was personally present and did see **Belagapu Kumar** (name of person signing the assignment),
who is personally known to me, execute the above assignment.

T. Janakiraman (signature of first witness)

Signed at Bangalore, India (location of witness signature)

on this day, 8th August, 2019 (date of signature).

I, SUHAS . K. B (name of second witness), whose residential address is
#1158 Jakkasandra, Kormangla 1st block, Bangalore, India
was personally present and did see **Belagapu Kumar** (name of person signing the assignment),
who is personally known to me, execute the above assignment.

Suhas KB (signature of second witness)

Signed at Bangalore, India (location of witness signature)

on this day, 8th August, 2019 (date of signature).

Date: 8th August 2019

Suhas K B
Inventor's Signature

Print full name of inventor

Suhas K B

Residence

Bangalore, India

Citizenship

India

Mailing Address

176 South Street

Hopkinton, MA 01748

I, Tamilarasam Janakiraman (name of first witness), whose residential address is
12th cross, Kaggadal pura, Bangalore, India.
was personally present and did see **Suhas K B** (name of person signing the assignment), who is
personally known to me, execute the above assignment.

T. Tamilarasam (signature of first witness)

Signed at Bangalore, India (location of witness signature)

on this day, 8th August, 2019 (date of signature).

I, VENKAT REDDY M (name of second witness), whose residential address is
T1, CRESCENT CLASSIC, 12 MAIN, BTM layout, BANGALORE
was personally present and did see **Suhas K B** (name of person signing the assignment), who is ^{560 076}
personally known to me, execute the above assignment.

V. Venkat Reddy M. (signature of second witness)

Signed at BANGALORE, INDIA (location of witness signature)

on this day, 08-Aug-2019, 2019 (date of signature).

Date: 5th September 2019

T. Tamilarasan
Inventor's Signature

Print full name of inventor

Tamilarasan Janakiraman

Residence

Hosur, India

Citizenship

India

Mailing Address

176 South Street

Hopkinton, MA 01748

I, Rama MURTHY THRI (name of first witness), whose residential address is

62, 2nd MAIN, KR-GARDEN, HAL, BANGALORE - 560017

was personally present and did see **Tamilarasan Janakiraman** (name of person signing the assignment), who is personally known to me, execute the above assignment.

Ramathri (signature of first witness)

Signed at BANGALORE (location of witness signature)

on this day, 5th September 2019, 2019 (date of signature).

I, Manjunath K S (name of second witness), whose residential address is

#272/K, Sethappa colony, 8th cross, Newhippasandra, Bangalore

was personally present and did see **Tamilarasan Janakiraman** (name of person signing the assignment), who is personally known to me, execute the above assignment.

Manjunath K S (signature of second witness)

Signed at Bangalore (location of witness signature)

on this day, 5/9/2019, 2019 (date of signature).