

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TONWORIO OGUARA	07/23/2021
DOUGLAS KILPATRICK	07/23/2021
XU JIAN	07/22/2021
CHEN SUN	07/23/2021
YUCHAN LO	07/23/2021
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:	17385671
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	125311.01/DELLP508US
NAME OF SUBMITTER:	THOMAS WATSON
SIGNATURE:	/Thomas Watson/
DATE SIGNED:	07/26/2021
Total Attachments: 7	

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ASSIGNMENT

WHEREAS, we, Tonworio Oguara, Douglas Kilpatrick, Xu Jian, Chen Sun, and YuChan Lo 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 RANKING TESTS BASED ON CODE CHANGE AND COVERAGE, 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 IP Holding Company LLC (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware 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: JULY 23RD, 2021


Inventor's Signature

Print full name of inventor: **Tonworio Oguara**
Residence: Everett, Washington
Citizenship: United States of America
Mailing Address: 309 126th St Se, Everett, Washington, 98208

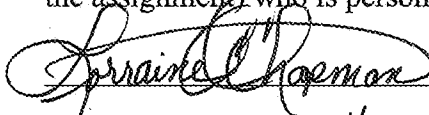
I Jill T. Chapman (name) whose residential address is
309 126th St SE Everett WA 98208
was personally present and did see Tonworio Oguara (name of person signing
the assignment) who is personally known to me, execute the above assignment.

 (signature of first witness)

Signed at 309 126th St SE Everett WA 98208 (location of witness signature)

on this day July 23 of 2021. (date of signature)

I Lorraine A. Chapman (name) whose residential address is
150-52 Boyd Rd. Mossyrock, WA 98564
was personally present and did see Tonworio Oguara (name of person signing
the assignment) who is personally known to me, execute the above assignment.

 (signature of second witness)

Signed at 309 126th St. SE Everett, WA 98208 (location of witness signature)

on this day July 23 of 2021. (date of signature)

Date: July 23 2021


Inventor's Signature

Print full name of inventor:

Douglas Kilpatrick

Residence:

Seattle, Washington

Citizenship:

United States of America

Mailing Address:

4406 23rd Ave Sw, Seattle, Washington, 98106

I, Amiya Kilpatrick (name) whose residential address is
4406 23rd Ave Sw, Seattle, WA 98106

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

 (signature of first witness)

Signed at 4406 23rd Ave Sw, Seattle, WA 98106 (location of witness signature)

on this day July 22 of 20 21 (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 20 ____ (date of signature)

Date: Jul 22, 2021

徐健

Inventor's Signature

Print full name of inventor:

Xu Jian

Residence:

Shanghai, China

Citizenship:

China

Mailing Address:

Room 202, No 23, Lane 2878, Gaoqin Road,
Pudong District, Shanghai, China

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 20____. (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 20____. (date of signature)

Date: 07/23/2021


Inventor's Signature

Print full name of inventor:

Chen Sun

Residence:

Seattle, Washington

Citizenship:

China

Mailing Address:

211 Lenora Street, Unit# 305, Seattle,
Washington, 98121

I chenrui shu (name) whose residential address is
725 177th LN NE
was personally present and did see Chen Sun (name of person signing
the assignment) who is personally known to me, execute the above assignment.

chenrui shu (signature of first witness)

Signed at 725 177th LN NE (location of witness signature)

on this day 07/23 of 2021. (date of signature)

I Lisa Liu (name) whose residential address is
725 177th LN NE
was personally present and did see Chen Sun (name of person signing
the assignment) who is personally known to me, execute the above assignment.

Lisa Liu (signature of second witness)

Signed at 725 177th LN NE (location of witness signature)

on this day 7-23 of 2021. (date of signature)

Date: 2021.07.23

羅有展

Inventor's Signature

Print full name of inventor:

YuChan Lo

Residence:

Taoyuan Dist., Taiwan

Citizenship:

China

Mailing Address:

No. 21, Ln. 503, Tong'an St., Taoyuan Dist.,
Taiwan, 330051

I _____ (name) whose residential address is

_____ (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 20____. (date of signature)

I _____ (name) whose residential address is

_____ (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 20____. (date of signature)