PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------|----------------|
| JIACHENG NI | 08/25/2020 |
| JINPENG LIU | 08/25/2020 |
| QIANG CHEN | 08/25/2020 |
| ZIJIA WANG | 08/26/2020 |
| ZHEN JIA | 08/24/2020 |

RECEIVING PARTY DATA

| Name: | EMC IP HOLDING COMPANY LLC | |
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| Street Address: | 176 SOUTH STREET | |
| City: | HOPKINTON | |
| State/Country: | MASSACHUSETTS | |
| Postal Code: | 01748 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 17003573 |

CORRESPONDENCE DATA

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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.

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| ATTORNEY DOCKET NUMBER: | 119896.02 |
|-------------------------|------------------|
| NAME OF SUBMITTER: | JOSEPH B. RYAN |
| SIGNATURE: | /Joseph B. Ryan/ |
| DATE SIGNED: | 08/26/2020 |
| | |

Total Attachments: 7

PATENT REEL: 053606 FRAME: 0222

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PATENT REEL: 053606 FRAME: 0223

ASSIGNMENT

WHEREAS, we, Jiacheng Ni, Jinpeng Liu, Qiang Chen, Zijia Wang and Zhen Jia, 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, DEVICE, AND COMPUTER PROGRAM PRODUCT FOR MODEL UPDATING, the specification of which:

| XJ | 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 limited liability company 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: | |
|-------------------------------|--------------------------------|
| 25/08/2020 | /Jiacheng Ni/ |
| | Inventor's Signature |
| Full name of first inventor: | Jiacheng Ni |
| Residence: | Shanghai, China |
| Citizenship: | China |
| Mailing Address: | No. 12, Lane 768, Ruili Road |
| | Minhang District |
| | Shanghai, China 200240 |
| Date: | |
| | Inventor's Signature |
| Full name of second inventor: | Jinpeng Liu |
| Residence: | Shanghai, China |
| Citizenship: | China |
| Mailing Address: | Wuhan 10 Rongyuan Road |
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| Date: | |
| | Inventor's Signature |
| Full name of third inventor: | _ |
| Residence: | Qiang Chen Shanghai, China |
| | Shanghai, China China |
| Citizenship: Mailing Address: | Room 1203, No. 128 Sunyao Road |
| Maning Address. | Pudong District |
| | Shanghai, China |

| Date: | |
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| | Inventor's Signature |
| Full name of first inventor: | Jiacheng Ni |
| Residence: | Shanghai, China |
| Citizenship: | China |
| Mailing Address: | No. 12, Lane 768, Ruili Road Minhang District |
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| Date: Aug. 25, 2020 | Jimpeng Lin Inventor's Signature |
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| Full name of second inventor: | Jinpeng Liu |
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| Citizenship: | China |
| Mailing Address: | Wuhan 10 Rongyuan Road |
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| Date: | |
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| Date: 2020, 08, 26 | ZIJIA WANG. |
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| | Inventor's Signature |
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| Citizenship: | China |
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| | Shanghai, China 200433 |
| Date: | |
| | Inventor's Signature |
| Full name of fifth inventor: | Zhen Jia |
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PATENT REEL: 053606 FRAME: 0229

| Date: | |
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| | Inventor's Signature |
| Full name of fourth inventor: | Zijia Wang |
| Residence: | Shanghai, China |
| Citizenship: | China |
| Mailing Address: | 5th Floor, 6th Building, KIC Plaza No. 433 Songhu Road, Yangpu District |
| | Shanghai, China 200433 |
| Date: August 24, 2020 | /Zhen Jia/ |
| August 24, 2020 | Inventor's Signature |
| Full name of fifth inventor: | Zhen Jia |
| Residence: | Shanghai, China |
| Citizenship: | China |
| Mailing Address: | Room 402, No. 17, Phase 5, Citizens Park 1313 Lijin Road, Pudong District Shanghai, China 200129 |

RECORDED: 08/26/2020