PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AMAN BHATIA	08/22/2020
HAOBO WANG	08/26/2020
FAN ZHANG	08/19/2020

RECEIVING PARTY DATA

Name:	SK HYNIX MEMORY SOLUTIONS AMERICA INC.
Street Address:	3103 NORTH FIRST STREET
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95134

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17011983

CORRESPONDENCE DATA

Fax Number:

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.

Phone:	650-326-2400
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Correspondent Name:	KILPATRICK TOWNSEND & STOCKTON LLP
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Address Line 2:	SUITE 1900
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ATTORNEY DOCKET NUMBER:	098645-1198835-SK073-N
NAME OF SUBMITTER:	MARCOS VERA
SIGNATURE:	/Marcos Vera/
DATE SIGNED:	09/03/2020

Total Attachments: 6
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source=Executed Assignment (All Inventors to SHMSA) 098645-1198835-SK073-N#page2.tif
source=Executed Assignment (All Inventors to SHMSA) 098645-1198835-SK073-N#page3.tif

ASSIGNMENT
(Patent Application)

We [I], the undersigned, have invented certain inventions and improvements disclosed in a utility (provisional or non-provisional) or design patent application entitled

"EFFICIENT READ-THRESHOLD CALCULATION METHOD FOR PARAMETRIC PV-LEVEL MODELING,"

the specification of which is provided with this Assignment and identified by the Attorney Docket No. above.

(Application No. _17/011,983_ filed on _September 3, 2020_)

For other good and valuable consideration, the receipt and sufficiency of which we [I] acknowledge, we [I]:

1. Agree to assign, transfer, convey, and sell, hereby assign, transfer, convey, and sell and have assigned, transferred, conveyed, and sold to SK HYNIX MEMORY SOLUTIONS AMERICA INC., a corporation of the State of Delaware having a principal place of business at 3103 North First Street, San Jose, California 95134 U.S.A. ("Assignee"), the entire right, title, and interest in and to:

    (a) all intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed, embodied, shown, or claimed in the above-referenced patent application, implicitly or explicitly;

    (b) the above-referenced patent application, and all applications based in whole or in part upon the above-referenced patent application, including, without limitation, all applications that are a provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, reexamination, post-grant review, inter partes review, supplemental examination or non-U.S. patent application or application for other rights based in whole or in part on the above-referenced patent application;

    (c) the right to claim priority to the above-referenced patent application, and any and all applications referenced in subsection (b); and

    (d) all patents (including, without limitation, all U.S. and non-U.S. patents, registrations, utility models, industrial designs, design patents, counterparts, continuations, continuations-in-part, divisionals, reissues, renewals, substitutes, extensions, reexaminations, post-grant reviews, inter partes reviews and supplemental examinations) that are granted or issued upon, or that claim priority to, any and all applications described in (b) of this paragraph or that disclose or claim intellectual property described in (a) of this paragraph, in whole or in part; and

(e) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.

2. Authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent application(s) and patents described in paragraph 1 of this Assignment.

3. Agree to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described in paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.

4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon us [me], as well as our [my] heirs, legal representatives, and assigns.

5. Promise and affirm that we [I] have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.

6. Authorize Kilpatrick Townsend & Stockton to insert above the application number and filing date of the above-described patent application when known.

Signed on the dates indicated beside our [my] signatures [signature].

Signature: _____ Date: _____
    Aman Bhatia

Signature: _____ Date: _____
    Haobo Wang

Signature: _____ Date: _____

      Fan Zhang

.

(e) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.

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Signed on the dates indicated beside our [my] signatures [signature].

Signature: _____ Date: 8/22/2020

Aman Bhatia

Signature: _____ Date: _____

Haobo Wang

     (c) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.

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Signed on the dates indicated beside our [my] signatures [signature].

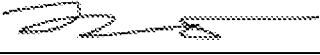Signature: _____ Date: _____
     Aman Bhatia

Signature: _____ Date: 08/26/2020
     Haobo Wang

Signature: _____ Date: 8/19/2020

Fan Zhang