PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6100248

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AMAN BHATIA	05/20/2018
FAN ZHANG	04/18/2018
CHENRONG XIONG	04/20/2018
NAVEEN KUMAR	04/19/2018
YU CAI	04/19/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	62562186
Application Number:	15981648

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.

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Correspondent Name:	KILPATRICK TOWNSEND & STOCKTON LLP
Address Line 1:	TWO EMBARCARDERO CENTER
Address Line 2:	EIGHT FLOOR
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ATTORNEY DOCKET NUMBER:	098645-1062492-SK050-N
NAME OF SUBMITTER:	MARCOS VERA
SIGNATURE:	/Marcos Vera/
DATE SIGNED:	05/11/2020

Total Attachments: 4
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source=Assignment As Filed (Inventors to SKHMS) 098645-1062492-SK050-N#page2.tif
source=Assignment As Filed (Inventors to SKHMS) 098645-1062492-SK050-N#page3.tif
source=Assignment As Filed (Inventors to SKHMS) 098645-1062492-SK050-N#page4.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 as follows

U.S. Provisional Appln. No. 62/562,186 filed September 22, 2017 entitled: A METHOD TO SELECT FLASH MEMORY BLOCKS FOR REFRESH AFTER READ OPERATIONS;

the specification of which is provided with this Assignment and identified by the Attorney Docket No. above, entitled: A METHOD TO SELECT FLASH MEMORY BLOCKS FOR REFRESH AFTER READ OPERATIONS, (Serial No. __15/981,648__ filed on __May 16, 2018__)

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 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
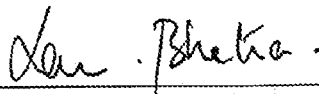
(e) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties 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: _Aman Bhatia_   Date: _05/20/2018_
Aman Bhatia

Signature: _____   Date: _____
Fan Zhang

Signature: _____   Date: _____
Chenrong Xiong

(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.

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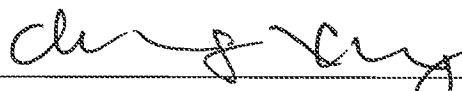
Signed on the dates indicated beside our [my] signatures [signature].

Signature: _____ Date: _____
      Aman Bhatia

Signature: _____ Date: 4 / 18 / 18
      Fan Zhang

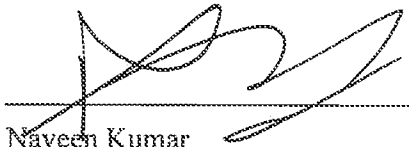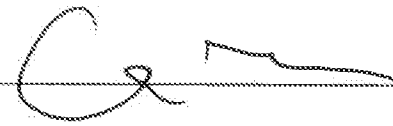Signature: _____ Date: 04/20/208
      Chenrong Xiong

ASSIGNMENT
A METHOD TO SELECT FLASH MEMORY BLOCKS FOR REFRESH AFTER
READ OPERATIONS
Attorney Docket No. 098645-1062492-SK050-N
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Signature: _____ Date: 4/17/2018
Naveen Kumar

Signature: _____ Date: 4/19/2018
Yu Cai