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PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4553777

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YI-MIN LIN	05/13/2016
AMAN BHATIA	05/13/2016
NAVEEN KUMAR	05/13/2016
JOHNSON YEN	05/13/2016

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: 1

Property Type	Number		
Application Number:	15159331		

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

Email: mvera@kilpatricktownsend.com

KILPATRICK TOWNSEND & STOCKTON LLP **Correspondent Name:**

Address Line 1: TWO EMBARCARDERO CENTER

Address Line 2: **EIGHT FLOOR**

Address Line 4: SAN FRANCISCO, CALIFORNIA 94111

ATTORNEY DOCKET NUMBER:	098645-0966181-SK007-N
NAME OF SUBMITTER:	CIARA MCDERMOTT
SIGNATURE:	/Ciara McDermott/
DATE SIGNED:	08/16/2017

Total Attachments: 4

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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

"TECHNIQUES FOR LOW COMPLEXITY TURBO PRODUCT CODE DECODING,"

the	e specit	fication	of	which is	provided with	this	Assignment and i	dentified by	the
Attorney	Docl	ket N	lo.	above.	(Serial	No.	<u> 15/159,33</u>	1 filed	on
May	19,	2016)					

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, the right to claim priority to the above-referenced patent application, 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) 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

ASSIGNMENT TECHNIQUES FOR LOW COMPLEXITY TURBO PRODUCT CODE DECODING Attorney Docket No. 098645-0966181-SK007-N Page 2 of 3

- (d) 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:	
	Yi-Min Lin		

ASSIGNMENT TECHNIQUES FOR LOW COMPLEXITY TURBO PRODUCT CODE DECODING Attorney Docket No. 098645-0966181-SK007-N Page 2 of 3

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

Signature:	Yi-Min	Lin	Date:	05/13/246
	Yi-Min Lin			

SK bynix

ASSIGNMENT
TECHNIQUES FOR LOW COMPLEXITY TURBO PRODUCT CODE DECODING
Attorney Docket No. 098645-0966181-SK007-N

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Signature:

Aman Bhatia

Date: 05/13/20/6

Signature:

Naveen Kumar

Date: 05/13/2616

Signature:

Johnson Yen

Date: 5/13/2016

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