

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5171182

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DEOG-KYOON JEONG	09/21/2018
SUHWAN KIM	09/21/2018
JOO-HYUNG CHAE	09/21/2018
RECEIVING PARTY DATA	
Name:	SK HYNIX INC.
Street Address:	2091, GYEONGCHUNG-DAERO, BUBAL-EUB, GYEONGGI-DO
City:	ICHEON
State/Country:	KOREA, REPUBLIC OF
Postal Code:	17336
Name:	SEOUL NATIONAL UNIVERSITY R&DB FOUNDATION
Street Address:	1, GWANAK-RO, GWANAK-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	08826
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16149687
CORRESPONDENCE DATA	
Fax Number:	(425)348-3299
<i>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.</i>	
Phone:	425-348-3500
Email:	docketing@ampacc.com
Correspondent Name:	AMPACC LAW GROUP, PLLC
Address Line 1:	6100 219TH ST. SW
Address Line 2:	SUITE 580
Address Line 4:	MOUNTLAKE TERRACE, WASHINGTON 98043
ATTORNEY DOCKET NUMBER:	100SS0770US
NAME OF SUBMITTER:	STEVE Y. CHO

SIGNATURE:	/Steve Y. Cho/
DATE SIGNED:	10/03/2018
Total Attachments: 2 source=40T5411#page1.tif source=40T5411#page2.tif	

SHINSUNG : IVX000140675(P17H0227/US)

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, the below named individual(s), hereinafter referred to as "Assignors," are the inventor(s) of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: DUTY CYCLE DETECTOR AND PHASE
DIFFERENCE DETECTOR

Filing Date: October 2, 2018

Application No.: 16/149,687

WHEREAS, SK hynix Inc. of 2091, Gyeongchung-daero, Bubal-eub, Icheon-si, Gyeonggi-do, Republic of Korea and Seoul National University R&DB Foundation of 1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, hereinafter referred to as "ASSIGNEE," is desirous of acquiring ASSIGNORS' interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

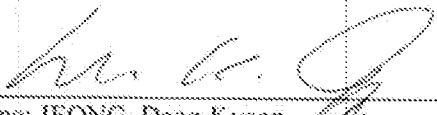
NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignees, and Assignees' successors and assigns, all their right, title and interest in and to the said invention and application including any corresponding foreign application, and in and to any Letters Patent which may hereafter be granted on the same in the United States and any corresponding foreign application, the said interest to be held and enjoyed by said Assignees as fully and exclusively as it would have been held and enjoyed by said Assignors had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in Assignee, or Assignee's successors and assigns.

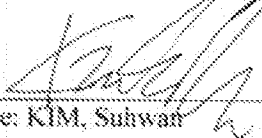
Assignors hereby authorize and request AMPACC Law Group, PLLC, 6100 219th Street SW, Suite 580, Mountlake Terrace, WA 98043, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

2018.09.21
Date:


Name: JEONG, Deog-Kyoon

2018.09.21
Date:


Name: KIM, Suhwan

2018.09.21

Date:



Name: CHAE, Joo-Hyung