505080933 09/06/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5127691

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JONG-MIN LEE	08/22/2018
BEOM-RAE JEONG	08/23/2018

RECEIVING PARTY DATA

Name:	SK HYNIX INC.
Street Address:	2091, GYEONGCHUNG-DAERO, BUBAL-EUB, ICHEON-SI
City:	GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16123467

CORRESPONDENCE DATA

Fax Number: (571)327-5452

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: 571-327-5450

Email: ipntlaw@ipntlaw.com

Correspondent Name: IP & T GROUP LLP

Address Line 1: 8230 LEESBURG PIKE SUITE 650

Address Line 4: VIENNA, VIRGINIA 22182

ATTORNEY DOCKET NUMBER:	P18H0034/US
NAME OF SUBMITTER:	MYUNG SOO KIM
SIGNATURE:	/Myung Soo KIM/
DATE SIGNED:	09/06/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

source=IVX000139772_P18H0034US_ASSIGNMENT&DECLARATION#page1.tif source=IVX000139772_P18H0034US_ASSIGNMENT&DECLARATION#page2.tif

PATENT 505080933 REEL: 046803 FRAME: 0366

SHINSL	ING: I	VX00	0013	9772	(P18H	0034/US

Attorney Docket No.:	
ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT	
WHEREAS LEE, Jong-Min hereinal	fter
referred to collectively as the assignor and inventor, has invented a certain improvement relating to	
MEMORY SYSTEM AND METHOD FOR OPERATING THE SAME	
[X] said application being attached hereto; [] said application having been filed in the United States Patent and Trademark Office on, as Application Serial No, and was amene	ded
on (if applicable); [] the specification of which was filed under the Patent Cooperation Treaty on	
Serial No, the United States of America being designated.	
AND WHEREAS SK hynix Inc.	
application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valua consideration paid by said assignee to said assigner, the receipt of which is hereby acknowledged, said assigner here assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title a interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; as assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any a said divisions and continuations thereof, and the said invention and any and all patents which may be granted therefineduling any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages anywise arising from or appertaining thereto, for and divisions thereof, for the use and benefit of said assignee, and sa assignee's successors and assigns, in as ample and renewals, reissue and prolongations thereof, for the use and benefit of said assignee, and enjoyed the same, if this assignment had not been made. AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissue	eby and aid aid for, in ed, aid and
and prolongations thereof.	108
AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors a assigns, in accordance herewith.	on nd
As an above-named inventor, I hereby declare that the above-identified application was made or authorized to made by me, and that I am the original inventor of an original joint inventor of a claimed invention in the application.	be
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 10 by fine or imprisonment of not more than five (5) years, or both.	01
ASSIGNOR (INVENTOR);	
Signature: <u>Jony 1977 Lee</u> Date: <u>2018, 08, 22</u>	

Page 1 of 1

Printed or Typed Name: <u>LEE, Jong-Min</u>

SHINSUNG: 1VX000139772(P18H0034/US)

	Attorney Docket No.:
ASSIGNMENT OF AND DECLARATION FOR FOR UNITED STATES LETTERS PA	
WHEREAS JEONG, Beom-Rac	, hereinafter
referred to collectively as the assignor and inventor, has invented a certain impr	ovement relating to
MEMORY SYSTEM AND METHOD FOR OPERATING THE SAME	
[X] said application being attached hereto; [] said application having been filed in the United States Patent and Trademar , as Application Serial No. on	k Office on and was amended
Serial 190, the Officer States of Athenea being designated	
hereinafter referred to as the assignee or applicant, is desirous of acquiring the capplication, including any and all divisions and continuations thereof, and in an which may be granted therefor, including any and all renewals, reissues and proposed to the consideration paid by said assignee to said assigner, the receipt of which is assigns, sells and transfers to said assignee, and said assignee's successors and interest in and to said application, including any and all divisions and continuations any and all patents which may be granted therefor, including any and all rene assignee, and said assignee's successors and assigns, to have, hold, exercise and all divisions and continuations thereof, and the said invention and any and including any and all renewals, reissues and prolongations aftereof, with all the anywise arising from or appertaining thereto, for and during the term or term including any and all renewals, reissues and prolongations thereof, for the assignee's successors and assigns, in as ample and beneficial a manner as the enjoyed the same, if this assignment had not been made. AND said assignor hereby agrees to perform, upon the request of sassigns, any and all acts relating to the obtaining or to the asserting of said parand prolongations thereof. AND said assignor authorizes and requests the Commissioner of Pate.	d to said invention and any and all patents dongations thereof; Dollar (\$1.00), and other good and valuable thereby acknowledged, said assignor hereby assigns, the full and exclusive right, title and tions thereof, and in and to said invention and wals, reissues and prolongations thereof; said enjoy the said application, including any and all patents which may be granted therefor e rights, powers, privileges and advantages in as of any and all such patents when granted use and benefit of said assignee, and said assigner might or could have held and add assignee, or said assignee's successors of tents, including any and all renewals, reissues this and Trademarks to issue Letters Patent or
said application, and on any and all divisions and continuations thereof, to said assigns, in accordance herewith.	
As an above-named inventor, I hereby declare that the above-identificance by me, and that I am the original inventor or an original joint inventor of	led application was made or authorized to be a claimed invention in the application.
I hereby acknowledge that any willful false statement made in this de by fine or imprisonment of not more than five (5) years, or both.	claration is punishable under 18 U.S.C. 1001
ASSIGNOR (INVENTOR):	
Signature: Some - Rose , Joses Date:	20/8.88,23
Printed or Typed Name:JEONG, Beom-Rae	

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