503699808 02/19/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3746446

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SANG HYUN SUNG	02/11/2016
JEONG HWAN KIM	02/11/2016
JIN HO KIM	02/11/2016

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15047748

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	PA2643-0	
NAME OF SUBMITTER:	WOOCHOON W. PARK	
SIGNATURE:	/Woochoon W. Park/	
DATE SIGNED:	02/19/2016	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 2

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PATENT 503699808 REEL: 037772 FRAME: 0974

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Title of Invention	THREE-DIMENSIONAL NONVOLA	ATILE MEMORY DEVICE	
	PCT/KR######### filed on	r r PCT international application number	
Declaration		made or authorized to be made by me.	
	application. I hereby acknowledge that any willfu	in original joint inventor of a claimed invention in the I false statement made in this declaration is punishable onment of not more than five (5) years or both.	
		on of the sum of one dollar (\$1), the receipt whereof is able consideration, I, by these presents do sell, assign SK hynix Inc.	
		Bubal-eub, Icheon-si, Gyeonggi-do, Korea	
	and the heirs, successors, assigns and legal representatives of the assignee(s) the full and exclusive right to the said invention in the United States and in its territorial possessions and in any and all foreign countries any and all improvements thereof, the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee(s), of the entire right, title, and interest in and to the same, for his sole use and for the use of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.		
Assignment	I agree promptly upon request of the assignee(s), its heirs, successors, assigns and legal representatives of the assignee(s) to communicate any facts known to it respecting the patent and the invention set forth therein, and to execute and deliver without further compensation any power of attorney, Assignment, application, whether original, continuation, divisional or reissue, or other papers that may be necessary.		
	I hereby covenant that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale. I further covenant that assignee(s) will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to me and will testify as to the same in any litigation related thereto and will promptly execute and deliver to assignee(s) or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.		
	Inventor Name (First Middle LAST):	Sang Hyun SUNG	
Legal Name Of Inventor	Inventor Signature:	Sono Hyun SUNG	
	Date:	February 11, 2016 PATENT REEL: 037772 FRAME: 0975	

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Legal Name Of Inventor	Inventor Name (First Middle LAST):	Jeong Hwan KIM
	Inventor Signature:	Jeong Hwan KIM
	Date:	February 11, 2016
Legal Name Of Inventor	Inventor Name (First Middle LAST):	Jin Ho KIM
	Inventor Signature:	Jin Ho EM
	Date:	February 11, 2016

PATENT REEL: 037772 FRAME: 0976

RECORDED: 02/19/2016