501984700 07/11/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hyunsu YOON	06/29/2012
Jeongsu JEONG	06/28/2012
Yongho SEO	07/05/2012

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

Prope	rty Type	Number
Application Num	iber:	13546255

CORRESPONDENCE DATA

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via US Mail.

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Address Line 4: Annandale, VIRGINIA 22003

ATTORNEY DOCKET NUMBER:	P12HE072/US	
NAME OF SUBMITTER:	Jung H. Kim	

Total Attachments: 6

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PATENT REEL: 028528 FRAME: 0331 **JP \$40.00 135462**5

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> PATENT REEL: 028528 FRAME: 0332

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Attorney Docket No.

Signature of third assignor:	Date
Name of third assignor:	SEO, Yong-Ho
Address:	2091, Gyeongchung-daero, Bubal-eub, Icheon-si, Gyeonggi-do, Korea

ASSIGNMENT OF PATENT APPLICATION WHEREAS I/We, the below named inventor(s) has made an invention entitled: MEMORY DEVICE AND METHOD FOR MEASURING RESISTANCE OF MEMORY CELL For which I/We executed an application for Letters Patent of the United States concurrently herewith; and/or For which I/We filed an application for Letters Patent of the United States on _____(Application BE IT KNOWN that, for good and valuable consideration, the receipt of which is hereby acknowledged, I/We, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto SK hynix Inc., a corporation of the Republic of Korea, whose post office address is 2091, Gyeongchung-daero, Bubal-eub, Icheon-si, Gyeonggi-do, Korea (hereinafter referred to as Assignee), its lawful successors and assigns my/our entire right, title, and interest in and to this application and the invention(s) and improvement(s) set forth therein; and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent and any and all Letters Patent of the United States and of countries foreign thereto, which may be granted thereon or therefore; and any reissues, reexaminations, or extensions of all such Letters Patent. I/WE HEREBY authorize the Assignee, its lawful successors and assigns to apply for Letters Patent in all countries foreign to the United States directly in its own name, and to claim priority of the filing date of any of the abovementioned applications for Letters Patent of the United States and of countries foreign thereto under the provisions of any and all international conventions and treaties. I/WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States and official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as foresaid, to issue all Letters Patent for this invention to the Assignee, its successors and assigns, in accordance with the terms of this Assignment; AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment; AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with said Assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and in countries foreign thereto, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns. AND, I/WE HEREBY authorize and request the attorneys of record to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been known to them by the United States Patent and Trademark Office. IN TESTIMONY WHEREOF, I/We have hereunto set our hands. Date ____ Signature of first assignor: YOON, Hyunsu Name of first assignor: Address: 2091, Gyeongchung-daero, Bubal-eub, Icheon-si, Gyeonggi-do, Korea 75 Mg Date 6/28/2012 Signature of second assignor: Name of second assignor: Address: 3101 North First Street San Jose, CA 95134 U.S.A

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Attorney Docket No.

Signature of third assignor:	Date
Name of third assignor:	SEO, Yong-Ho
Address:	2091, Gyeongchung-daero, Bubal-eub, Icheon-si, Gyeonggi-do, Korea

ASSIGNMENT OF PATENT APPLICATION

WHEREAS I/We, the below name					
MEMORY DEVICE AND M	ETHOD FOR	MEASURING	RESISTANCE	OF MEMORY C	CELL
For which I/We executed an applicatio	ation for Letters n for Letters Pate	nt of the United Sta	d States concurrently ates on	herewith; and/or (Application	n No.
BE IT KNOWN that, for good and assignor(s), have sold, assigned, tr. SK hynix Inc., a corporation of th Bubal-eub, Icheon-si, Gyeonggimy/our entire right, title, and interestherein; and any and all continuation application for said Letters Patent which may be granted thereon or t	ansferred, and set e Republic of Ko do, Korea (herein est in and to this a ons, continuations and any and all L	over, and do herel- rea, whose post off- nafter referred to as application and the s-in-part, divisional etters Patent of the	oy sell, assign, transfice address is 2091, in Assignee), its lawfu invention(s) and impos, and renewals of an United States and o	er, and set over unto Gyeongchung-daeron it successors and assiptovement(s) set forth and substitutes for said f countries foreign the	o, igns h d nereto,
I/WE HEREBY authorize the Assi foreign to the United States directl mentioned applications for Letters of any and all international conver-	y in its own name Patent of the Uni	e, and to claim prio ted States and of c	rity of the filing date	of any of the above-	-
I/WE HEREBY authorize and requof any country or countries foreign to issue all Letters Patent for this i of this Assignment;	to the United Sta	ates, whose duty it	is to issue patents on	i applications as fore:	said,
AND, I/WE HEREBY covenant to I/We have not executed and will n	nat I/We have the ot execute any ag	full right to convey reement in conflict	y the interest assigne with this Assignmen	d by this Assignmen nt;	t, and
AND, I/WE HEREBY further cov said Assignee, its successors and a proceeding, sign all lawful papers necessary or desirable to perfect the divisional, continuation, and reissus said Assignee, its successors and a United States and in countries for papers shall be borne by the Assigneers.	essigns, any facts when called upor title to this involve applications, massigns, to obtain the title the title to the title title to the title title to the titl	known to me/us rest to do so, execute sention in said Assignake all rightful oat and enforce propering understood that	specting this invention and deliver any and a gnee, its successors a hs and generally do a patent protection for	on and testify in any all papers that may be not assigns, execute a secute it is in this invention in the	legal e all to aid
AND, I/WE HEREBY authorize a said application now identified by have been known to them by the U	the attorney docl	tet number and title	e set forth above as s	nber and filing date o oon as the same shal	of 1
IN TESTIMONY WHEREOF, I/V	Ve have hereunto	set our hands.			
Signature of first assignor:			Date		
Name of first assignor: Address:	YOON, HyunSu 2091, Gyeongchung-daero, Bubal-eub, Icheon-si, Gyeonggi-do, Korea				
Signature of second assignor:			Date		
Name of second assignor: JEONG, JeongSu Address: 3101 North First Street San Jose, CA 95134 U.S.A					

Page 1of 2

Address:

Attorney Docket No.

Signature of third assignor: Name of third assignor: Address:

5,2012

SEO, Yongho 2091, Gyeongchung-daero, Bubal-eub, Icheon-si, Gyeonggi-do, Korea

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