	RECORDATION FORM COVER PATENTS ONLY					SHEET U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. SAM-399  Mail Stop Assignment Recordation Services					
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Name of conveying party(ies):  1. Hak-Soo YU 2. Sua KIM 3. Hong-Sun HWANG					Name:			Samsung Electronics Co., Ltd.			
	4. Chul-W	00 PARK				Addros	1				
ditional name(s) of conveying parties attached? ☐ Yes 🗵 No						Internal Address: 416, Maetan-dong, Yeongtong-gu					
	Nature of conveyance:			Street Address:							
	Assignment			Merger	City:		Suwo	on-si			
			<del> </del>	Change of Name	State:	State: Gyeonggi-do Country: South Zip C				Zip Code:	
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PATENT 700475783 REEL: 027317 FRAME: 0514

SAM-399 ID-201007-009-1-US0

## **ASSIGNMENT**

We, <u>Hak-Soo YU, Su-A KIM, Hong-Sun HWANG, Chul-Woo PARK ("Assignors")</u>, have an interest in the invention entitled:

## MEMORY CORE AND SEMICONDUCTOR MEMORY DEVICE INCLUDING THE SAME

a sa tamak Ci	rates or International &	application for patent entitled above and naming the
ich is the subject of a United St dersigned inventors	Ales of Alles	
[ ] in a Provisional Patent A	polication No	eclaration signed today with this assignment; laration was signed on and assigned Serial No.
[ ] in a Non-Provisional App [ ] in a Non-Provisional App	lication where the Dec	eclaration signed today will aration was signed on
(x) in a Non-Provisional April 13/304,851 or PCT Inte	rnational Application N	ło. <u></u> :
[ ] in U.S. Patent No.	, 135404	Wangtong Gu Suwon-si, Gyeonggi-do, Republic
Samsung Electronics Co.	LTD., 418, Maetan-do	a Interest in the invention.
	maint and adequacy of	good and valuable consideration and right title and
ssignment, and assign to Assign terest to any and all invention application listed above ("the invention	s, developments and antion"), in the United	improvements disclosed of descriptions, including States of America and all foreign countries, including states, the Paris Convention, and any foreign countries, takes, the Paris Convention, and any foreign or had this
ar the full term of the party o	his Assignment include	of time, the same as if held by Assignor had des the assignment of the right to recover for past d to the invention.
nfringements of the machines for		" I was month or documents
requested for the making and pro- all foreign countries including, be divisional, renewal or substitute cooperate with Assignee in an invention, and render all necessa- the invention hereby transferred the undersigned agree that the	ut not limited to the for reissue, re-examinate programmer in the litigation regarding ary assistance deemed without further or other attorneys of record in	bllowing: provisional, continuation, continuation, or extension. Assignors covenant and agree to the invention, patents or applications regarding the essential to Assignee's full protection and title in and to essential to Assignee's full protection and title in and to essential to Assignment; or compensation than that provided in this Assignment; as aid application shall hereafter act on behalf of said
Assignee.	innment cale Of	agreement or encumbrance has been or will be entered
Assignors covenant that r into which would conflict with thi	s Assignment.	
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Assignors hereby grant assignment any further identificany issuing authority, includir document.	the firm of MUIR PAT cation that may be ned ig the United States	TENT CONSULTING, PLLC the power to insert of the consult of the co
Hak-400 Yu Assignor 1: Hak-Soo YU	(pinnatura)	Oct-2/-20//
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(Assignment) 1 of 2

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JD-A Kirm \_\_(signature)

Assignor 2: Su-A KIM

Assignor 3: Hong-Sun HWANG (signature)

Chul-Woo Park (signature)
Assignor 4: Chul-Woo PARK

OCT 21 (201)

Date

(Assignment) 2 of 2

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