U.S. PTO . 12/320625 01/30/2009

Customer Service Window
Mail Stop Assignment Recordation Services
Randolph Building
401 Dulany Street
Alexandria VA 22314

Atty. Docket No.: 2557-001033/U

Alexandria, VA 22314		
	1 - 2009	
REC'	EET	
To the Hon	demarks:	
Please recoi 1035	47675 py thereof.	
Name of conveying party(ies):	2. Name and address of receiving party(ies)	
Yong-ho CHO	Name: SAMSUNG ELECTRONICS CO., LTD.	
Additional name(s) of conveying party(ies) attached? YES NO	Street Address: 416 Maetan-dong, Yeongtong-gu	
3. Nature of conveyance:	City: Suwon-si State: Gyeonggi-do	
Assignment	Country: Republic of Korea	
Change of Name Other:		
Execution Date: 1/21/2009	Additional name(s) & address(es) attached? YES NO	
4. Application number(s) or patent number(s):		
If this document is being filed together with a new application, the execution date of the application is: 1/21/2009		
A. Patent Application No(s).	B. Patent No.(s).	
Additional numbers attac	hed? YES NO	
5. Name and address of party to whom correspondence	6. Total No. of applications/patents involved: One (1)	
concerning document should be mailed:	7. Total fee (37 C.F.R. § 3.41): \$40.00	
Name: HARNESS, DICKEY & PIERCE, P.L.C.	⊠ Enclosed	
Street Address: P.O. BOX 8910		
City: RESTON State: VA ZIP: 20195	Authorized to be charged to deposit account, if no fee attached.	
Country: USA	8. Deposit account number: 08-0750	
	(Attach triplicate copy of this page	
	if paying by deposit account)	
DO NOT USE THIS SPACE		
9. Statement and signature.		
To the best of my knowledge and belief, the foregoing in	njarmation is true and correct and any attached copy is a true	
copy of the original document.	1()	
John A. Castellano, #35,094	January 30, 2009	
Name of Person Signing/Reg. No.	Signature Date	
Total number of pages including cover sheet, attachments, and document:		
L		
\/	JAC:Ij	
V		

02/02/2089 AUONDAF1 00000024 12320625 04 FC:8021 40.00 OP

PATENT REEL: 022255 FRAME: 0692

ASSIGNMENT

Atty. Docket No. 2557-001033/US

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

BLOCK DECODING CIRCUITS OF SEMICONDUCTOR MEMORY DEVICES AND METHODS OF OPERATING THE SAME

for which Assignor is about to make or has made United States or International application for patent

(a)	IZI	executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
(b)		executed on,; or
(c)		filed on, and assigned Serial No or PCT International Application No; and

WHEREAS, Samsung Electronics Co., Ltd., 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as Assignee, is desirous of acquiring all right, title, and interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor agrees to, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Parls Convention, and any foreign countries, to the invention as described in the aforesaid application and all United States Letters Patent which may be granted therefore, and all divisions, continuations, reissues, reexaminations and extensions thereof, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assigner had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute theroof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesald, to issue the Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Page 1 of 2

_

 ASSIGNMENT

Atty. Docket No. 2557-001033/US

Yong-ho CHO

10/19-110 0/10

2009. 1. 21

Dated

Page 2 of 2

▼ 富寺941770781252136175 20090105151755

RECORDED: 01/30/2009

PATENT REEL: 022255 FRAME: 0694