10-05-2004		Atty. Docket No.: /US Page 1 of 1	
		SHEET	
To the 11010 10285194 Please record the attached original		nd Trademarks: ts or copy thereof.	
1. Name of conveying party(ies):	2. Name and	address of receiving party	(ies)
Hyun-Suk LEE	Name: S	AMSUNG ELECTRONIC	CS CO., LTD.
Kyung-Woo NAM Additional name(s) of conveying party(ies) attached?	International Address:		
YES NO  3. Nature of conveyance:	416 Maetan-dong, Paldal-ku, Suwon-city  Kyounggi-do, Republic of Korea		on-city 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
.⊠ Assignment ☐ Merger	City:	State:	ZIP: 18/6 260
Security Agreement Change of Name	Country:		stal Code: 87
Other:	Additional name(s) & address(es) attached?   YES   NO		
Execution Date: September 25 and September 25, 2004, respectively.	9-28-04		
4. Application number(s) or patent number(s):			
If this document is being filed together with a new application, t	he execution da	te of the application is: Se	ptember 28, 2004
A. Patent Application No(s).	B. Patent No	o.(s).	
Additional numbers atta	│ ched? ☐ YE	S 🛛 NO	
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total No. of applications/patents involved: One (1)		
Name: HARNESS, DICKEY & PIERCE, P.L.C.	7. Total fee (37 C.F.R. § 3.41): \$40.00  Enclosed		
Street Address: P.O. BOX 8910			
City: <b>RESTON</b> State: <b>VA</b> ZIP: <b>20195</b> Authorized to be charged to deposit account, if no fee attached.			account,
Country: USA	8. Deposit account number: <u>08-0750</u>		
		(Attach triplicate copy of if paying by deposit ac	
DO NOT US	E THIS SPACE		county
9. Statement and signature.	7		
To the best of my knowledge and belief, the foregoing copy of the original document.	information is tr	rue and correct and any att	ached copy is a true
John A. Castellano/35,094  Name of Person Signing/Reg. No.	Signature	<u>S</u>	eptember 28, 2004 Date
Total number of pages including cover sh	neet, attachment	s, and document: Three (3	)
D4/2004 BBYRNE 00000036 10950478			
FC:8021 40.00 OP			

PATENT REEL: 015842 FRAME: 0791

## **ASSIGNMENT**

Atty. Docket No. 8956-000101/US/CPA

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

## WORD LINE ENABLE TIMING DETERMINATION CIRCUIT OF A MEMORY DEVICE AND METHODS OF DETERMINING WORD LINE ENABLE TIMING IN THE MEMORY DEVICE

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

(a)	executed on even date preparatory to filing (each invantor 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;
(d)	U.S. Patent No, Issued; and

WHEREAS, SAMSUNG ELECTRONICS CO., LTD., a corporation of Korea having a principal place of business at 416 Maetan-dong, Paldal-gu, Suwon-city, Kyounggi-do, Republic of Korea, hereinafter referred to as Assignes, is desirous of acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents 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 all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said 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 thereof, 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 heraby covenants that no assignment, sele or agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignes, 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 eforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

The undersigned hereby grant(s) the law firm of Hamess, 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.

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PATENT

## **A88IGNMENT**

HYUN-SUK LEE

Sep. 25. 2004

KYUNG-WOO NAM

september 25. 2004

Dated

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**RECORDED: 09/28/2004**