Customer Service Window Mail Stop <u>Assignment Recordation Services</u> Randolph Building 401 Dulany Street	U.S. PTC 12/01046 01/25/200	5 · Atty. Docket No.: 8956-000137/11
Alexandria, VA 22314 02 - 06	-2008	
R]		SHEET
To the Please r 10347	##### ### /9963	Trademarks: • copy thereof.
1. Name of conveying party(ies):	2. Name and ad	dress of receiving party(ies)
Young-Sun MIN and	Name: Sam	sung Electronics Co., Ltd.
Dong-Il SEO.	Street Addres	ss: 416 Maetan-dong, Yeongtong-gu
Additional name(s) of conveying party(ies) attached?	City: Suwo	n-si State: Gyeonggi-do
<u>YES</u> NO 3. Nature of conveyance:	Country: Re	epublic of Korea
X Assignment Merger Security Agreement		-
Change of Name Other:	Additional na	ume(s) & address(es) attached? 🔲 YES 🔯 NO
Execution Date: 1/25/2008 and 1/25/2008		
A. Patent Application No(s). Additional numbers att	and the second se	X NO
5. Name and address of party to whom correspondence concerning document should be mailed:		applications/patents involved: One (1)
Name: HARNESS, DICKEY & PIERCE, P.L.C.	7. Total fee (37	C.F.R. § 3.41): \$40.00
Street Address: P.O. BOX 8910	Enclosed	
City: RESTON State: VA ZIP: 20195	Authorized	to be charged to deposit account,
Country: USA		unt number: <u>08-0750</u>
A	(4	Attach triplicate copy of this page if paying by deposit account)
	SE THIS SPACE	
9. Statement and signature.		
To the best of my knowledge and belief, the foregoing copy of the original document.	information is true	and correct and any attached copy is a true
John A. Castellano, #35,094	Signature	January 25, 2008 Date
		<u></u>
Total number of pages including c	over sheet, attachme	ents, and document:

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PATENT REEL: 020477 FRAME: 0211 Atty. Docket No. 8956-000137/US

ASSIGNMENT

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

VOLTAGE GENERATING CIRCUITS FOR SEMICONDUCTOR MEMORY DEVICES AND METHODS FOR THE SAME

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 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. _____;
- (d) U.S. Patent No. ____, Issued ____; and

WHEREAS, Samsung Electronics Co., Ltd., 416, Maetan-Dong, Yeongtong-Gu, Suwonsi, Gyeonggi-do, Republic of Korea, hereinafter referred to as Assignee, 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 Parls 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 hereby covenants that no assignment, sale 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 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 aforesaid, to issue said 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.

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Atty, Decket No. 8956-000137/US

ASSIGNMENT MIN Young Sum Young-Sur 2008 15 . 1 Dated Dong Dated

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