Docket No.: SEC.1644 FORM PTO-1595 (Modified) 04-28-2006 U.S. DEPARTMENT OF COMMERCE (Rev. 03-01) OMB No. 0651-0027 (exp.5/31/2002) Patent and Trademark Office Tab settings - + 103227802 attached original documents or copy thereof. To the Director of the United States Patent a.... 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Jeong-Un CHOI So-Hee HWANG Name: Samsung Electronics Co., Ltd. Address: 416, Maetan-dong, Yeongtong-gu, Suwon-so O ☐ Yes ☒ No Additional names(s) of conveying party(ies) 3. Nature of conveyance: Merger Security Agreement Change of Name City: Gyeonggi-do ___ State/Prov.: Other Republic of Korea Country: Execution Date: April 24, 2006 Additional name(s) & address(es) Yes ⊠ No Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is: April 24, 2006 Patent Application No. Filing date B. Patent No.(s) NEW April 25, 2006 ☐ Yes 🗵 No Additional numbers 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: STEPHEN R. WHITT 7. Total fee (37 CFR 3.41):....\$ 40.00 Registration No. 34,753 Enclosed - Any excess or insufficiency should be credited or debited to deposit account Address: VOLENTINE FRANCOS & WHITT, PLLC Authorized to be charged to deposit account ONE FREEDOM SQUARE 8. Deposit account number: 11951 FREEDOM DRIVE, SUITE 1260 50-0238 City: RESTON State/Prov.: VA Country: USA ZIP: 20190 (Attach duplicate copy of this page if paying by deposit account)

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy typhen P. Whood April 25, 2006 Date

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9. Statement and signature.

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STEPHEN R. WHITT

Name of Person Signing

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	ASSIGN	MENT			
_	In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned				
Insert Name(s) of Inventor(s)	1. Jeong-Un CHOI	7.			
	2. So-Hen HWANG	8.			
	3.	9.			
	4.	10.			
	5.	11.			
	6. the undersigned hereby sell(s) and assign	12. (s) to			
Name(s) of	SAMSUNG ELECTRONICS CO., LTD.				
Assignee(s) &	SAMSUNG ELEC	TRONICS CO., LTD.			
Address(es) Title of	of Suwon-si, Gyec (hereinafter designated as the Assignee) to States as defined in 35 USC 100, in the in	ong, Yeongtong-gu, onggi-do, Republic of Korea the entire right, title and interest for the United			
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Address(es) Title of Invention Date of Signing of	(hereinafter designated as the Assignce) to States as defined in 35 USC 100, in the in E-FUSE CIRCUIT USING LEAR for which an application for patent in the the undersigned on April 24, 20. The undersigned agree(s) to execute all papplication and any continuing, divisions execute separate assignments in connecting deem necessary or expedient. The undersigned agree(s) to execute all platerference which may be declared concreissue thereof and to cooperate with the evidence and going forward with such in The undersigned agree(s) to execute all platerference and going forward with such in the undersigned agree(s) to execute all platerference and going forward with such in	cong. Yeongtong-gu, conggi-do. Republic of Korea the entire right, title and interest for the United Invention known as KAGE CURRENT PATH OF TRANSISTOR United States of America has been executed by CO6 capers necessary in connection with this all or reissue applications thereof and also to ion with such applications as the Assignee may compete necessary in connection with any cerning this application or continuing division or Assignee in every way possible in obtaining iterference. Coapers and documents and perform any act which ims or provisions of the International Convention			

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PATENT REEL: 017815 FRAME: 0600

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ATTORNEY DOCKET NO. SEC. 1644

The undersigned hereby grant(s) the practitioners associated with the <u>CUSTOMER NUMBER 20987</u> 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 United States Patent Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	2006. 4 24.	Signature of Inventor	Jeong-Un CHOI				
Date	2006. 4. 24	Signature of Inventor	5.H. Hwang				
Date		Signature of Inventor					
Date		Signature of Inventor					
Date		Signature of Inventor					
Date		Signature of Inventor					
	(Note regarding Witnessing: It is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been witnessed.) Witness Witness						
Applicant R	Applicant Reference No. IB14433-US						

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