Customer Service Window Mail Stop Assignment Recordation Services Randolph Building 401 Dulany Street Alexandria, VA 22314 RE RE 10333	-2006	Docket No.: 9862-000199/US Page 1 of 1		
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.				
1. Name of conveying party(ies):	2. Name and address of recei	ving party(ies)		
Sang-Jib HAN	Name: SAMSUNG ELI	ECTRONICS CO., LTD.		
Additional name(s) of conveying party(ies) attached?	Street Address: 416 Maetan-dong, Yeongtong-gu			
3. Nature of conveyance:	City: Suwon-si	State: Gyeonggi-do		
Assignment Merger Security Agreement	Country: Republic of K	orea		
Change of Name Other:	-			
Execution Date: 1. October 23, 2006	Additional name(s) & addre	ss(es) attached? TYES NO		
 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the A. Patent Application No(s). New Application 	e execution date of the applicat B. Patent No.(s).	ion is: 1. October 23, 2006		
Additional numbers attached? TYES NO				
5. Name and address of party to whom correspondence	6. Total No. of applications/p	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.				
Street Address: P.O. BOX 8910	☐ Authorized to be charged	to deposit account,		
City: RESTON State: VA ZIP: 20195	if no fee attached.			
Country: USA	8. Deposit account number:	<u>08-0750</u>		
	(Attach triplicate copy of this page if paying by deposit account)			
DO NOT USE VALS SPACE				
9. Statement and signature. To the best of my knowledge and belief, the foregoing in copy of the original document.	springtion is true and correct a	nd any attached copy is a true		
John A. Castellano, #35,094	Signature	November 7, 2006 Date		

Total number of pages including cover/sheet, attachments, and document: Three (3)

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ASSIGNMENT

Atty, Docket No. 9862-000199/US

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

MULTI-CHIP PACKAGE SEMICONDUCTOR DEVICE AND METHOD OF DETECTING A FAILURE THEREOF

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

(a)	X	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);
(p)		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, Şuwon-sı. Gyeonggl-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 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 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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ASSIGNMENT

Sang-Jib HAN

Song-Jib HAN

Song-Jib HAN

PATENT REEL: 018525 FRAME: 0455

ÄSSIGNMENT

Atty. Docket No. 9862-000199/US

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

MULTI-CHIP PACKAGE SEMICONDUCTOR DEVICE AND METHOD OF DETECTING A FAILURE THEREOF

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

(a)	X	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);
(Þ)		executed on,; or
(c)		filed on, and assigned Serial No or PCT International Application No;
(d)		U.S. Patent No; issued; and
WHE	Repub	Samsung Electronics Co., Ltd., 416, Maetan-dong, Yeongtong-gu, Suwon-si. lic of Korea, hereinafter referred to as Assignee, is desirous of acquiring an

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

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ASSIGNMENT

Sang-JID HAN

2006 , 10 , 23

Dated

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RECORDED: 11/07/2006

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