**U.S.** Department of Commerce

**Patent and Trademark Office** Attorney Docket No. 10024.0045

1. Name of conveying party:  Gwang Su KIM  Additional name of conveying party attached?   Yes   No    1. Name: DONGBU ELECTRONICS CO., LTD.    Name: Security Agreement   Merger    Security Agreement   Change of Name    Joint Research Agreement   Change of Name    Joint Research Agreement   Government Interest Assignment    Executive Order 9424, Confirmatory License   Yes   No    4. Application number or patent number:   Additional name & Address attached?    Additional name & Address attached?   Yes   No    5. Name and address of to whom correspondence concerning document should be mailed:    Name: Mr. Emest F. Chapman    Name: Mr. Emest F. Chapman    Name: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.    Street Address: 901 New York Avenue, NW    Street Address: 12ip: 20001-4413   Authorized User Name    8. Statement and signature.    To the best of my knowledge and belief, the foregoing information is true and coptect and any attached copy is a true copy of the original document.    Name: Patent Applications and registrations involved: 1    Name: Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.    Street Address: 901 New York Avenue, NW    State:   Zip: 20001-4413   Authorized User Name    8. Statement and signature.    To the best of my knowledge and belief, the foregoing information is true and coptect and any attached copy is a true copy of the original document.    Emest F. Chapman    2. Name: Address: Beptember 28, 2006    September	To the Director of the U.S. Patents and Tragerialis Office: Please i	<b>)∠</b> 삭 record the at	tached origina	al documents or copy t		. 22,852	
Additional name of conveying party attached?						<u> </u>	
Additional name of conveying party attached?	1. Name of conveying party:	2.	Name an	d address of receiving	party:	S. P.	
3. Nature of conveyance/Execution Date: Execution Dates: September 25, 2006	Gwang Su KIM	Nam					
Secution Dates: September 25, 2006   Seoul, Korea, 135-260     Assignment	Additional name of conveying party attached? ☐ Yes ☒ No		nal Address:			<del>+</del> <del>+</del> <del>+</del> <del>-</del>	
Assignment		Stree					
Joint Research Agreement	·	City:		·			
Government Interest Assignment  Executive Order 9424, Confirmatory License Other  This document is being filed together with a new application.  A Application number or patent number:  B. Patent Number:  Additional numbers attached?  Yes No  Additional numbers attached?  Yes No  5. Name and address of to whom correspondence concerning document should be mailed:  Name: Mr. Ernest F. Chapman  Mr. Ernest F. Chapman  GARRETT & DUNNER, L.L.P.  Street Address: 901 New York Avenue, NW  GIty: Washington, D.C.  State: Zip: 20001-4413  Authorized User Name  B. Patent Number:  6. Total number of applications and registrations involved: 1  7. Total fee (37 CFR 3.41): \$40  Authorized to be charged by credit card Authorized to be charged to deposit account) None required (government interest not affecting title)  8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account No.: 06-0916  8. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Ernest F. Chapman  Bate	☐ Security Agreement ☐ Change of Name	State	e:	Zip Code:			
Additional name & Address attached?    Other	☐ Joint Research Agreement						
Seecutive Order 9424, Confirmatory License	Government Interest Assignment	A -1 -1:		A d d 44 1 10			
4. Application number or patent number:	☐ Executive Order 9424, Confirmatory License	Addi	Additional name & Address attached?				
A. Patent Application Number:    Additional numbers attached?   Yes   No	☐ Other		☐ Yes	⊠ No			
Additional numbers attached?	4. Application number or patent number:   This document is being filed together with a new application.						
Additional numbers attached?	1						
5. Name and address of to whom correspondence concerning document should be mailed:  Name: Mr. Ernest F. Chapman  7. Total fee (37 CFR 3.41): \$40  □ Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed (Please charge deficiency to deposit account) None required (government interest not affecting title)  8. Payment Information  City: Washington, D.C.  State: Zip: 20001-4413  8. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  September 28, 2006  Date	The state of the s	-		••			
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GARRETT & DUNNER, L.L.P.  Street Address: 901 New York Avenue, NW  a. Credit Card Last 4 Numbers Expiration Date  b. Deposit Account No.: 06-0916  State: Zip: 20001-4413 Authorized User Name  8. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and confect and any attached copy is a true copy of the original document.  September 28, 2006			uthorized to binclosed (Plea	be charged to deposit a ase charge deficiency	account to deposit a		
Street Address: 901 New York Avenue, NW  a. Credit Card Last 4 Numbers Expiration Date  Expiration Date  b. Deposit Account No.: 06-0916  State: Zip: 20001-4413 Authorized User Name  8. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Ernest F. Chapman  September 28, 2006  Date		8. Paymer	nt Information				
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Ernest F. Chapman  September 28, 2006  Date	1 -						
Ernest F. Chapman Date		s true and co	rect and any			ne original	
Signature		Signature			28, 2000_ Date	<del></del>	
Registration No. 25,961	_						
Total number of pages including cover sheet, attachments and documents: 2							
Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  Mail Stop Assignment Recordation Services, Director of the USPTO, PO box 1450, Alexandria, VA 22313-1450							

19/02/2006 CNGUYEN 90909072 11528567

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SOLE/JOINT INVENTION\_ (U.S. Rights Only) Attorney Docket No. 10024.0045

## **ASSIGNMENT**

WHEREAS I/We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

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SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE
for which I/WE executed an application for United States Letters Patent concurrently herewith or filed an application for
United States Letters Patent on , 20 (Application No. ); and
WHEREAS, Dongbu Electronics Co., Ltd.
a corporation of Republic of Korea
whose post office address is 891-10, Daechi-dong, Gangnam-gu, Seoul, Korea, 135-280
whose post office address is 651-10, Daech-dong, Gangham-gu, Seoul, Notes, 135-200
(hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;
NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, WE, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of
Patents and Trademarks of the United States to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment:

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign ell lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. , filed ) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Gwang Su KIM	对学	DATE 9/25 \2006
ADDRESS 1102-501, Jugong Apts., 1113, Mansu 2-dong, Namdong-g	u, Incheon, Korea, 405-744	CITIZENSHIP Republic of Korea

Page 1 of 1

PATENT

REEL: 018357 FRAME: 0476