To the Commissioner for Patents: Please record the attached original documents or copy thereof.  1. Name of conveying party(ies):	1	rm PTO-1595 12 - 16 3-92 RE	- 2003  U.S. DEPARTMENT OF COMMERCE TTER Patent and Trademark Office						
1. Name of conveying party(ies): 2. Name and address of receiving party(ies): 2. Name and address of receiving party(ies): 3. Nature of conveying party(ies) attached?	102624539Attorney Docket No.: 2080-								
Tale Ho Kim, Jea Yong Yoo, Woo Seang Yoon, Byung Jin Kim 2. Additional name(s) of conveying party(ies) attached?   Yes   Lig Electronics inc. 20, Yold-dong, Youngdungpo-gu Seoul, Korea  3. Nature of conveyance:   Merger   Merger		To the Commissioner for Patents: Please record the attached original documents or copy thereof.							
Nature of conveyance:   Assignment   Merger     Security Agreement   Change of Name     Other     Execution Date: October 21, 2003   Additional name(s) & address(es) attached?   Yes   No     Application number(s) or patent number(s): FILED HEREWITH     If this document is being filed together with a new application, the execution date of the application is: October 21, 2003     A Patent Application No.(s) N/A   B. Patent No.(s)     Additional numbers attached?   Yes   No     Name and address of party to whom correspondence concerning document should be mailed:     AMIT SHE H. RSO   LOS ANGELES. CALIFORNIA 90017   To Ital fee (37 CFR 3.41)   \$40     Enclosed   Authorized to be charged to deposit account     8. Deposit account number: \$02290 (Attach duplicate copy of this page if paying by deposit account)     DO NOT USE THIS SPACE     9. Statement and signature.   To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.	1.	Name of conveying party(ies): Y- Y- 3 Tae Ho Kim; Jea Yong Yoo; Woo Seong Yoon; Byung Jin Kim							
3. Nature of conveyance:    Assignment	2.		LG Electronics Inc. 20, Yoido-dong, Youngdungpo-gu						
Security Agreement	3.	Nature of conveyance:	10						
Gecurity Agreement   Change of Name		☐ Assignment ☐ Merger							
Additional name(s) & address(es) attached?		☐ Security Agreement ☐ Change of Name							
4. Application number(s) or patent number(s): FILED HEREWITH  If this document is being filed together with a new application, the execution date of the application is: October 21, 2003  A. Patent Application No.(s) N/A  B. Patent No.(s)  Additional numbers attached? □ Yes □ No  5. Name and address of party to whom correspondence concerning document should be mailed:  AMIT SHETH, ESQ.  LEE, HONG, DEGERMAN, KANG & SCHMADEKA P.C. 001 S. FIGUEROA STREET, 14 <sup>rd</sup> Floor  LOS ANGELES, CALIFORNIA 90017  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.  AMIT SHETH, REG No. 50,176  Date: December ☑ 2003  OMB No. 9651-0011 (exp. 4/94)  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services Director = U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	-	Other							
If this document is being filed together with a new application, the execution date of the application is: October 21, 2003  A. Patent Application No.(s) N/A  B. Patent No.(s)  Additional numbers attached? Yes Solve No  5. Name and address of party to whom correspondence concerning document should be mailed:  AMIT SHETH, ESQ.  LEE, HONG, DEGERMAN, KANG & SCHMADEKA P.C. 801 S. FIGUEROA STREET, 14 <sup>th</sup> Floor LOS ANGELES, CALIFORNIA 90017  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.  AMIT SHETH, REG. No. 50,178  Date: December 4, 2003  OMB No. 0651-0011 (exp. 4/94)  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services Director – U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450		Execution Date: October 21, 2003	Additional name(s) & address(es) attached?   Yes   No						
Additional numbers attached?	4.	If this document is being filed together with a new application, the execution date of the application is:  October 21, 2003							
5. Name and address of party to whom correspondence concerning document should be mailed:  AMIT SHETH, ESQ. LEE, HONG, DEGERMAN, KANG & SCHMADEKA P.C. 801 S. FIGUEROA STREET, 14 <sup>th</sup> Floor LOS ANGELES, CALIFORNIA 90017  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.  AMIT SHETH, REG. NO. 50,176  Date: December 4, 2003  OMB No. 0651-0011 (exp. 4/94)  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services Director − U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450		A. Faterit Application No.(s) N/A	B. Patent No.(s)						
document should be mailed:  AMIT SHETH, ESQ.  LEE, HONG, DEGERMAN, KANG & SCHMADEKA P.C. 801 S. FIGUEROA STREET, 14 <sup>™</sup> Floor LOS ANGELES, CALIFORNIA 90017  B. Deposit account number: 502290 (Attach duplicate copy of this page if paying by deposit account)  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.  AMIT SHETH, REG. NO. 50,176  Date: December 4, 2003  OMB No. 0651-0011 (exp. 4/94)  Mail Stop Assignment Recordation Services Director – U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450		Additional numbers attached? ☐ Yes ☒ No							
LEE, HONG, DEGERMAN, KANG & SCHMADEKA P.C. 801 S. FIGUEROA STREET, 14 <sup>TH</sup> Floor LOS ANGELES, CALIFORNIA 90017  8. Deposit account number: 502290 (Attach duplicate copy of this page if paying by deposit account)  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.  AMIT SHEMI, REG. NO. 50,176  Date: December 4, 2003  OMB No. 0651-0011 (exp. 4/94)  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services Director – U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	5.		6. Total number of applications and patents involved: [ 1 ]						
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(Attach duplicate copy of this page if paying by deposit account)  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.  AMIT SHE'MI, REG. NO. 50,176  Date: December 4, 2003  OMB No. 0651-0011 (exp. 4/94)  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services Director – U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450		LOS ANGELES, CALIFORNÍA 90017							
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	P.O. Box 1450								

PATENT REEL: 014780 FRAME: 0045

## **ASSIGNMENT**

(1-8)	Insert Name(s) of Inventor(s)	(1) T	ae Ho KIM	(5)			
		(2) J	sa Yong YOO	(6)			
		(3) V	/oo Seong YOON	(7)			
		(4) B	yung Jin KIM	(8)			
			considerations paid to ea	m of one dollar (\$1.00) and ch of the undersigned, the issign, transfer and set over	undersigned agree(s) to		
(9)	Insert name of Assignee	(9)	LG Electronics, Inc.	-			
(10)	Insert state of Incorporation of Assignee	(10)	Republic of Korea				
(11)	Insert address of Assignee	(11)	20, Yoldo-dong, Youngdu Seoul, Korea	ngpo-gu			
		/le e.g.	·				
	(hereinafter designated as the Assignee) the entire worldwide right, title and intere				e ngnt, tide and interest in		
(12)	Insert identification of Invention, such as Title, Case Number or Foreign Application Number	(12)		JCING DATA RECORDED ( CONJUNCTION WITH AS:			
				has (have) executed an app and all patent applications in eased thereon.			
(13)	insert Date of Signing of Application	(13)	October 21, 2003				
1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.							
2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.							
3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.							
4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.							
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 divisions or continuing 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 any agreement in conflict herewith.  The undersigned hereby appoints JONATHAN Y. KANG, REG. NO. 38,199; F. JASON FAR-HADIAN, REG. NO. 42,523; AMIT S. SHETH, REG. NO. 50,176; RICHARD K. YOON, REG. NO. 42,247; EDWARD GRAY, REG. NO. 35,166							
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 and Trademark Office for recordation of this document.							
Date:	<u> ユーベエーンのご</u> Signatu	ire of in	ventor <u>Tae Ho KIM</u>	名割害			
Date:	21-007-200} Signatu	re of in	ventor Jaa Yong YOC	July	<u> </u>		
Date:	シェータとイーンの3 Signatu	re of In	ventor Woo Saona YOON	4			

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**RECORDED: 12/04/2003** 

Date: 1 - 3 - 7 - 2 - 25 Signature of Inventor Byung Jin KIM

REEL: 014780 FRAME: 0046