P.02

1-3-92   RECORDATION FORM COVER LETTER   Patent and Trademark Office   Patent and Trademark O	F	orm PTO-1595	<u> </u>
To the Assistant Commissioner for Petents: Please record the attached original documents or copy thereof.  1. Name of conveying party(se): Hybrain Gon LEE, in Hwan CHOI, Kook Yean KWAK, Byoung Gill Kiffl, John Monk MM, Woo Chan Kiffl and Jae Hyung Kiffl 2. Additional name(s) of conveying party(se) attached?   vis   No 3. Nature of conveyance:   Assignment   Monger     Security Agreement   Change of Name     Joint Research Agreement   Change of Name     Joint Research Agreement   Change of Name     Government interest Assignment     Gevernment interest Assignment     Execution Date: 02/23/2007, 02/23/2007, 02/28/2007, 02/21/2007, 02/28			FORM COVER LETTER U.S. DEPARTMENT OF COMMERCE
To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.  1. Name of conveying pathylics): Hyoung don LEE in Hwan CHOL Kook Yeon KWAK, Byrung Gill KM, Jorg Moor KM, Woo Char KM In and Jase Hyung KM KM, Jorg Moor KM, Woo Char KM In and Jase Hyung KM KM, Jorg Moor KM, Woo Char KM In and Jase Hyung KM  2. Additional name(s) of conveying party(se) stached?  Yes S No  3. Neture of conveyance:	ĺ		
To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.  Name of conveying party(ise): Hybrour God LEE, in Hybran GNOL, Kook Yeon KNAK, Byoung Gill KiM, Jong Moon KM, Woo Chan KiM and Jae Hyung KM Woo Chan KiM Jae And Jae Hyung KM Woo Chan Kim Jae Hyung Kim	ł	FAIEN	
1. Name of conveying patryles):    Proving Gos LEE, In Hwan CHOI. Kook Yeon KWAK, Byoung Gill KM, Jong Moon KM, Woo Chan KM and Jae Hyung KM   2. Additional name(s) of conveying patryles) attached?		To the Assistant Occasion to Day	"-"
Hyoung Gen LEF, In-Iwan CHOI. Kook Yeen KNMA, Elyoung Gill Kiff, Jong Moon Kiff, Woo Chan Kiff and Jae Hyung Kiff.  2. Additional name(s) of conveying party(ies) attached? □ Yes ☑ No  3. Nature of conveyance: □ Assignment □ Change of Name □ Security Agreement □ Change of Name □ Government Interest Assignment □ Executive Order 9424, Confirmatory Licensee □ Other □ Change Order □ Change of Name □ Security 2012 20207, 02/23/2007, 02/28/			ecord the attached original documents or copy thereof.
KM, Jong Moon KM, Woo Chan KIM and Jae Hyung KIM  2. Additional name(s) of conveying party(ses) attached?	1.	Name of conveying party(iss):  Hyoung Gon LEE In Hwan CHOL Kook Year MAAK Browns City	2. Name and address of receiving party(ies):
2. Additional name(s) of conveying perty(les) attached?		KiM, Jong Moon KiM, Woo Chan KiM and Jae Hyung KiM	
3. Nature of conveyance:  Assignment   Merger    Security Agreement   Change of Name    Joint Research Agreement    Government Interest Assignment    Executive Order \$424, Confirmatory License    Other    Executive Order \$424, Confirmatory License    Other    Execution Date: 02/23/2007, 02/25/2007, 02/25/2007, 02/26/2007, 02/24/2007, 02/24/2007, 02/24/2007, 02/25	2.	Additional name(s) of conveying party(ies) attached?   Yes  No	20, Yoldo-dong, Youngdungpo-gu
Security Agreement   Change of Name   Joint Research Agreement   Government Interest Assignment   Execution Date: 02/23/2007, 02/29/2007, 02/28/200	3.	Nature of conveyance:	
Security Agreement		⊠ Assignment ☐ Merger	
Joint Research Agreement     Government Interest Assignment     Executive Order 9424, Confirmatory License     Other     Executive Date: 02/23/2007, 02/23/2007, 02/28/2007, 02/21/2007, 02/21/2007, 02/21/2007, 02/27/2007, 02/28/2007 & 02/28/2007, 02/28/2007, 02/21/2007, 02/21/2007, 02/28/2007 & 02/28/2007, 02/21/20			
Government Interest Assignment  Executive Order 9424, Confirmatory License Other  Execution Date: 02/23/2007, 02/23/2007, 02/28/2007, 02/28/2007, 02/21/2007, 02/21/2007, 02/28/2007 & 02/28/2007, 02/28/2007, 02/21/2007,  4. Application number(s) or patent number(s):  A Patent Application No.(s) 11/611.744  B. Patent No.(s) N/A  Additional numbers attached?			
Executive Order 9424, Confirmatory License   Other			 
Other     Execution Date: 02/23/2007, 02/23/2007, 02/26/2007, 02/21/2007, 02/21/2007, 02/21/2007, 02/26/2007 & 02/26/2007   Application number(s) or patent number(s):		- · · · · · · · · · · · · · · · · · · ·	
Additional name(s) & address(es) attached?    Additional name(s) & address(es) attached?    Yes ⋈ No  Application number(s) or patent number(s):    Application number(s) or patent number(s):    A Patent Application No.(e) 11/611.744    B. Patent No.(s) N/A  Additional numbers attached?    Yes ⋈ No  Additional numbers attached?    Yes ⋈ No  5. Name and address of party to whom correspondence concerning document should be mailed:    JONATHAN Y, KANG, ESQ, LEE, HONG, DEGERMAN, KANG & SCHMADEKA, At the address associated with Customer No. 35884 Phone: (213) 823-2221  Fax: (213) 823-2221  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 kyrowledge and belief, the forgoting is true and correct and any attached copy is a true copy of the original document.  LEW EDWARD V. MACAPAGA(), REG. NO. 55.416 Date: March 22, 2007  OMB No. 9551-9011 (exp. 4/94)  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services  Director of the U.S. Patent and Trademark Office P.O. Box 1450		·	
4. Application number(s) or patent number(s):  A. Patent Application No.(s) 11/611,744  B. Patent No.(s) N/A  Additional numbers attached?			Additional name(s) & address(es) attached? ☐ Yes ☒ No
4. Application number(s) or patent number(s):  A. Patent Application No.(s) 11/611,744  B. Patent No.(s) N/A  Additional numbers attached?  Yes No  5. Name and address of party to whom correspondence concerning document should be mailed:  JONATHAN Y, KANG, ESQ, LEE, HONG, DEGERMAN, KANG & SCHIMADEKA At the address associated with Customer No. 35884 Phone: (213) 623-2221  Fax: (213) 623-2221  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.  LEW EDWARD V, MACAPAGAD, REG. NO. 55.416  Date: March 22, 2007  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services  Director of the U.S. Patent and Trademark Office P.O. Box 1450		Execution Date: 02/23/2007, 02/23/2007, 02/26/2007, 02/21/2007, 02/21/2007, 02/26/2007 & 02/26/2007	
A. Patent Application No.(s) 11/611,744  B. Patent No.(s) N/A  Additional numbers attached?			
A. Patent Application No.(s) 11/611,744  B. Patent No.(s) N/A  Additional numbers attached?  No  5. Name and address of party to whom correspondence concerning document should be mailed:  JONATHAN Y. KANG, ESQ. LEE, HONG, DEGERMAN, KANG & SCHMADEKA At the address associated with Customer No. 35884 Phone: (213) 623-2211  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 providedge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.  LEW EDWARD V. MAGAPAGAD, REG. NO. 55,416  Date: March 22, 2007  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450	4.	Application number(s) or patent number(s):	ument is being filed together with a new application.
Additional numbers attached?			1
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JONATHAN Y. KANG, ESQ. LEE, HONG, DEGERMAN, KANG & SCHMADEKA At the address associated with Customer No. 35884 Phone: (213) 823-2211  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.  LEW EDWARD V. MACAPAGAD, REG. NO. 55,416  Date: March 22, 2007  OMB No. 0651-0011 (exp. 4/94)  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450	5.	Name and address of party to whom correspondence concerning document should be mailed:	Total number of applications and patents involved: [ 1 ]
LEE, HONG, DEGERMAN, KANG & SCHMADEKA At the address associated with Customer No. 35884 Phone: (213) 623-2221 Fax: (213) 623-2211  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.  LEW EDWARD V. MACAPAGAD, REG. NO. 55,416  Date: March 22, 2007  OMB No. 0651-0011 (exp. 4/94)  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450		Transition of manca.	***
LEE, HONG, DEGERMAN, KANG & SCHMADEKA At the address associated with Customer No. 35884 Phone: (213) 623-22211  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.  LEW EDWARD V. MACAPAGAD, REG. NO. 55,416  Date: March 22, 2007  OMB No. 0551-0011 (exp. 4/94)  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450		JONATHAN Y, KANG. ESO.	7. Total fee (37 CFR 3.41) \$40
Phone: (213) 623-2221 Fax: (213) 623-2221  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.  LEW EDWARD V. MACAPAGAD, REG. NO. 55,416  Date: March 22, 2007  OMB No. 0651-0011 (exp. 4/94)  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450		LEE, HONG, DEGERMAN, KANG & SCHMADEKA	☐ Enclosed
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Date: March 22, 2007	9.	Statement and signature.	
Date: March 22, 2007		To the hest of my kennylorine and holled the famous in the sand	Ade to the desired
OMB No. 0651-0011 (exp. 4/94)  Mail documents to be recorded with required cover sheet information to:  Mail Stop Assignment Recordation Services  Director of the U.S. Patent and Trademark Office  P.O. Box 1450		to the sest of my glowedge and defiel, the lotegoing is true and correct	t and any attached copy is a true copy of the original document.
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Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450	OM	3 Ng. 0651-0011 (exp. 4/94)	
Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450	Ma	il documents to be recorded with required cover sheet info	rmation to:
P.O. Box 1450		Mail Stop Assignment	Recordation Services

**PATENT REEL: 019064 FRAME: 0273** 

## ATTORNEY'S DOCKET NO. 2080-3538

## ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s)

(1) Hyoung Gon LEE

(5) Jong Moon KIM

(2) In Hwan CHOL

(6) Woo Chan KiM

(3) Kook Yeon KWAK

(7) Jas Hyung KIM

(4) Byoung Gill KIM

/1) Sas

(7) Byoung Gill Kim

(8)

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over 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, Yoido-Dong, Youngdungpo-Ku, Seoul 150-010, Korea

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) Insert identification of Invention, such as Title, Case Number or Foreign Application Number

(12) DTV TRANSMITTER AND METHOD OF CODING DATA IN DTV TRANSMITTER

(Application No. 11/611,744)

for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

(13) Insert Date of Signing of Application

(13) 02/23/2007, 02/23/2007, 02/26/2007, 02/21/2007, 02/21/2007, 02/26/2007, 02/26/2007

- 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.
- 5) 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 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 the Attorneys associated with Customer No. 035884 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.

PATENT REEL: 019064 FRAME: 0274

ATTORNEY'S DOCKET NO. 2080-3538

Date: Feb 23,2001)	Signature of inventorO / Fv &
Date: Fch 23, 2001)	Signature of inventor MoleCompany (In Hwan CHOI)
Date:	Signature of Inventor(Kook Yeon KWAK)
Date: Feb . 21 . 2007	Signature of Inventor 2 (Byoung Gui Kim)
Date: Feb. 21, 2009	Signature of Inventor 25 37 25 (Jong Moon KIM)
Date;	Signature of Inventor(Woo Chan KIM)
Date:	Signature of Inventor

## ATTORNEY'S DOCKET NO. 2080-3538

Date:	Signature of inventor
Date:	Signature of Inventor
Date: <u>Feb 26 200</u> 9	Signature of Inventor TOAL SOUL TO
Date:	Signature of Inventor(Byoung Gill KIM)
Date:	Signature of Inventor
Date: February 26, 2007	Signature of inventor
Date: February 26, 2007	Signature of Inventor

**REEL: 019064 FRAME: 0276**