#### PATENT ASSIGNMENT

## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Application Number: 13/771,403 previously recorded on Reel 030284 Frame 0949. Assignor(s) hereby confirms the Application Number: 13/771,430.

#### **CONVEYING PARTY DATA**

Name	Execution Date
Byeong Moon JEON	03/05/2013
Yoon SEONG SOH	02/28/2013

#### **RECEIVING PARTY DATA**

Name:	LG ELECTRONICS INC.
Street Address:	20, Yoido-dong, Youngdungpo-gu
City:	Seoul
State/Country:	KOREA, REPUBLIC OF

#### PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13771430	

## CORRESPONDENCE DATA

Fax Number: 7036688200

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: dcmailroom@hdp.com

Correspondent Name: Harness, Dickey & Pierce, P.L.C.

Address Line 1: P.O. Box 8910

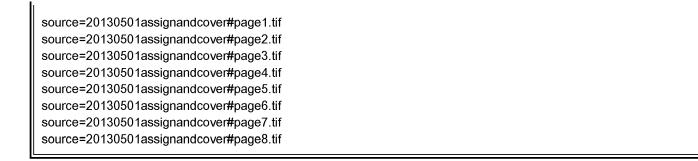
Address Line 4: Reston, VIRGINIA 20195

ATTORNEY DOCKET NUMBER:	6111-000004/US/COI1
NAME OF SUBMITTER:	Gary D. Yacura
Signature:	/Gary D. Yacura/
Date:	05/01/2013

Total Attachments: 8

PATENT REEL: 030331 FRAME: 0735

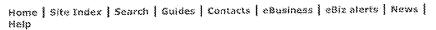
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#### United States Patent and Trademark Office





## Electronic Patent Assignment System

## **Confirmation Receipt**

Your assignment has been received by the USPTO. The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT	

Electronic Version v1.1 Stylesheet Version v1.1

	NEW ASSIGNMENT	
NVEYANCE:	ASSIGNMENT	
RTY DATA		
· .	lame	Execution Date
)N		03/05/2013
***************************************		02/28/2013
20, Yoido-dong, Youngdungpo-gu		
KOREA, REPUBLIC OF		
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	774405 A 771,430	
	DN  RTY DATA  LG ELECTRO 20, Yoldo-don Seoul KOREA, REP	Name ON STY DATA  LG ELECTRONICS INC. 20, Yoido-dong, Youngdungpo-gu

4/25/2013

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.  Correspondent Name: Harness, Dickey & Pierce, P.L.C.  Address Line 1: P.O. Box 8910  Address Line 4: Reston, VIRGINIA 20195		
ATTORNEY DOCKET NUMBER:	6111-000004/US/COI1	
NAME OF SUBMITTER:	Gary D. Yacura	
Signature:	/Gary D. Yacura/	
Date:	04/25/2013	
Total Attachments: 6 source=20130425decandassign#page1.tif source=20130425decandassign#page2.tif source=20130425decandassign#page3.tif source=20130425decandassign#page4.tif source=20130425decandassign#page5.tif source=20130425decandassign#page5.tif		
RECEIPT INFORMATION  EPAS ID: PAT2365633 Receipt Date: 04/25/2013 Fee Amount: \$40		

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4/25/2013

## DECLARATION AND ASSIGNMENT<sup>1</sup>

The undersigned acknowledges that this document is being used both as an assignment of the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application entitled:

# APPARATUS FOR DETERMINING MOTION VECTORS AND A REFERENCE PICTURE INDEX FOR A CURRENT BLOCK IN A PICTURE TO BE DECODED

As a below named inventor, I hereby declare that:		
This declaration is di	rected to (check one):	
	The attached application, or	
	United States application or PCT international application number 13/771,430 filed on February 20, 2013.	

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.

I hereby acknowledge that any willful false statement made in this Declaration and Assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

For good and valuable consideration, the receipt and adequacy whereof I hereby acknowledge, I hereby confirm any prior assignment to LG ELECTRONICS INC., 20, YOIDO-DONG, YOUNGDUNGPO-GU, SEOUL, REPUBLIC OF KOREA (hereinafter "Assignee"), and to the extent that I have not already done so, agree to assign, and hereby do, 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 throughout the world, including the right to claim priority under the

PATENT REEL: 030331 FRAME: 0739

<sup>&</sup>lt;sup>1</sup> This form requires an ADS if one has not yet been filed.

### **DECLARATION AND ASSIGNMENT**

laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the above-identified application, to the above-identified application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the above-identified application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by me had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights.

I hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model; or other similar rights, and for copyright, 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, any derivation proceedings relating thereto, and as to Letters Patent any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, 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.

I hereby covenant that I have not made and will not make any assignment, sale, license, agreement or encumbrance which would conflict with this Declaration and Assignment.

I hereby request the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and request 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 the Letters Patent, Utility Model Registration or other similar right to Assignee.

Page 2 of 2

#### Attorney Docket No. 6111-000004/US/COI1

## **DECLARATION AND ASSIGNMENT**

I hereby grant the law firm of Hamess, Dickey & Pierce, P.L.C. the power to insert on this Declaration and 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.

Byeong Moon JESN

March, 5-4h. 2013

Dated

Dated

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Page 3 of 3

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## DECLARATION AND ASSIGNMENT

The undersigned acknowledges that this document is being used both as an assignment of the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application entitled:

## APPARATUS FOR DETERMINING MOTION VECTORS AND A REFERENCE PICTURE INDEX FOR A CURRENT BLOCK IN A PICTURE TO BE DECODED

As a below nan	ned inve	entor, I hereby declare that:
This declaration	n is dire	cted to (check one):
		The attached application, or
		United States application or PCT international application number 13/771,430 filed on February 20, 2013.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.

I hereby acknowledge that any willful false statement made in this Declaration and Assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

For good and valuable consideration, the receipt and adequacy whereof I hereby acknowledge, I hereby confirm any prior assignment to LG ELECTRONICS INC., 20, YOIDO-DONG, YOUNGDUNGPO-GU, SEOUL, REPUBLIC OF KOREA (hereinafter "Assignee"), and to the extent that I have not already done so, agree to assign, and hereby do, 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 throughout the world, including the right to claim priority under the

.

<sup>1</sup> This form requires an ADS if one has not yet been filed.

### **DECLARATION AND ASSIGNMENT**

laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the above-identified application, to the above-identified application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the above-identified application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by me had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights.

I hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, 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, any derivation proceedings relating thereto, and as to Letters Patent any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, 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.

I hereby covenant that I have not made and will not make any assignment, sale, license, agreement or encumbrance which would conflict with this Declaration and Assignment.

I hereby request the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and request 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 the Letters Patent, Utility Model Registration or other similar right to Assignee.

Page 2 of 2

Attorney Docket No. 6111-000004/US/COI1

#### **DECLARATION AND ASSIGNMENT**

order to comply with the rules of the U.S. I document.	Patent and Trademark Office for recordation of this
Byeong Moon JEON	
Dated	•
Yoon Seong SOH	-
Dated Feb/28/2013	-

Page 3 of 3

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PATENT REEL: 030331 FRAME: 0744

**RECORDED: 05/01/2013** 

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