# 503332012 06/02/2015

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
JUNG WOO KIM	05/20/2015
JOON AH PARK	05/20/2015
KYOUNG SEOK PYUN	05/20/2015
JUNG SOON SHIN	05/20/2015
HONG-SEOK LEE	05/20/2015
TAE SUNG JUNG	05/20/2015
BAEK HWAN CHO	05/20/2015
SEUNG HOON HAN	05/20/2015

### **RECEIVING PARTY DATA**

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State/Country:	KOREA, REPUBLIC OF

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14728391

## **CORRESPONDENCE DATA**

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NAME OF SUBMITTER:	FRANKLIN R. BRYAN
SIGNATURE:	/Franklin R. Bryan/
DATE SIGNED:	06/02/2015

PATENT REEL: 035766 FRAME: 0979

# Total Attachments: 8 source=NewApp\_0120521241\_ExecutedCDA\_EPAS#page1.tif source=NewApp\_0120521241\_ExecutedCDA\_EPAS#page2.tif source=NewApp\_0120521241\_ExecutedCDA\_EPAS#page3.tif source=NewApp\_0120521241\_ExecutedCDA\_EPAS#page4.tif source=NewApp\_0120521241\_ExecutedCDA\_EPAS#page5.tif source=NewApp\_0120521241\_ExecutedCDA\_EPAS#page6.tif source=NewApp\_0120521241\_ExecutedCDA\_EPAS#page7.tif source=NewApp\_0120521241\_ExecutedCDA\_EPAS#page8.tif

PATENT REEL: 035766 FRAME: 0980

# COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

### DECLARATION

As a below-named inventor, I	hereby dec	lare that	this	declaration	n is directed to the application
attached hereto, or to United S	tates Appli	ication N	lumb	er or PCT	International Application Number
14/728,391	_filed on _	June			(if applicable), entitled:

### DEVICE AND METHOD FOR DETECTING POSITION OF OBJECT

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

I believe I am the original inventor or an original joint inventor of a claimed invention in the aboveidentified application.

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

I have reviewed and understand the contents of the above-identified application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

### ASSIGNMENT

For valuable consideration, I, as a below-named assignor, hereby assign to:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do, 443-742 Republic of Korea

I authorize and request the attorneys appointed in the above-identified application to hereafter complete this Assignment by inserting above the application number and the filing date of the above-identified application when known, and to correct any typographical errors that may be discovered in this Assignment.

PATENT REEL: 035766 FRAME: 0981

This Assignment includes the above-identified application, any and all United States and foreign patents, utility models, and design registrations granted for any of the inventions and improvements that are the subject of the above-identified application, and the right to claim priority based on the filing date of the above-identified application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations, like rights of exclusion, and inventors' certificates for any of the inventions and improvements that are the subject of the above-identified application; and I agree for myself and my heirs, legal representatives, and assigns without further compensation to perform such lawful acts and to sign such further applications, Assignments, preliminary statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

In witness whereof, I, as a below-named inventor and assignor, intending to be legally bound, have hereunto affixed my signature on the date indicated below next to my signature.

Inventor's Legal Name	Jung Woo KIM					
Inventor's Signature	-Ari	Date	May_/	20	/2(	015
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Inventor's Legal Name	Kyoung Seok PYUN				
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Inventor's Legal Name	Jung Soon SHIN		
Inventor's Signature	MON	Date	May / 20 / 2015
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Inventor's Signature	Cee May-Seok	Date	May / 20 / 2015
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		Date	May /	20 /	2015
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Mailing Address	Samsung Advanced Institute of Technol gu Suwon-si, Gyeonggi-do 443-803, Re		***	g∙ro, Yeo	ngtong-

Inventor's Legal Name	Baek Hwan CHO		
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Inventor's Signature		Date	
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Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do 443-803, Republic of Korea		



SAMSING ELECTRONICS

# COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

# **DECLARATION**

As a below-named inventor, I hereby declare that this declaration is directed to the application attached

hereto, or to United Sta	ites Application Ni	umber or PC	I' Interna	ational Application Number
14/728,391	filed on _	June 2,	2015	(if applicable), entitled:
DEVIC	CE AND METHO	D FOR DET	ECTING	G POSITION OF OBJECT
The above-identified ap	oplication was mad	de or authoriz	zed to be	e made by me.
I believe I am the original identified application.	nal inventor or an	original joint	inventor	r of a claimed invention in the above-
I hereby acknowledge t USC 1001 by fine or in	•			this declaration is punishable under 18 rears, or both.
I have reviewed and un	derstand the conte	ents of the abo	ove-ident	atified application, including the claims.
known to me to be mat applications, material in	erial to patentabili nformation that be	ty as defined came availab	in 37 CF ole betwe	and Trademark Office all information FR 1.56, including for continuation-in-part een the filing date of the prior application action-in-part application.
		ASSIGNI	MENT	
For valuable considerat	tion, I, as a below-	named assign	nor, herel	eby assign to:
	ro, Yeongtong-gu onggi-do, 443-742			
and its successors and a	assigns (collective)	ly hereinafter	called "	'the Assignee"), the entire right, title, and
interest throughout the	world in the inven	tions and im	proveme	ents that are the subject of the application
identified in the above	declaration, which	is United St	ates App	olication Number or PCT International
Application Number _	14/728,391	f	iled on _	June 2, 2015
I authorize and request	the attorneys appo	ointed in the	above-ide	entified application to hereafter complete

this Assignment by inserting above the application number and the filing date of the above-identified

1

application when known, and to correct any typographical errors that may be discovered in this Assignment.

This Assignment includes the above-identified application, any and all United States and foreign patents, utility models, and design registrations granted for any of the inventions and improvements that are the subject of the above-identified application, and the right to claim priority based on the filing date of the above-identified application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations, like rights of exclusion, and inventors' certificates for any of the inventions and improvements that are the subject of the above-identified application; and I agree for myself and my heirs, legal representatives, and assigns without further compensation to perform such lawful acts and to sign such further applications, Assignments, preliminary statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

In witness whereof, I, as a below-named inventor and assignor, intending to be legally bound, have hereunto affixed my signature on the date indicated below next to my signature.

Inventor's Legal Name	Jung Woo KIM		
Inventor's Signature		Date	
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Inventor's Legal Name	Jung Soon SHIN		
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Inventor's Legal Name	Hong-Seok LEE		
Inventor's Signature		Date	/
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