#### 502740114 03/26/2014

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2786710

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
DONG HWAN LEE	08/26/2013
SEUNG WOOK PARK	08/26/2013
CHRISTIAN ROMERO	08/26/2013
YOUNG DO KWEON	08/29/2013
JIN GU KIM	08/26/2013

#### **RECEIVING PARTY DATA**

Name:	SAMSUNG ELECTRO-MECHANICS CO., LTD.
Street Address:	150, MAEYEONG-RO, YEONGTONG-GU
City:	SUWON-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	443-743

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14027835

#### **CORRESPONDENCE DATA**

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

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Address Line 2: SUITE 700

Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20005

ATTORNEY DOCKET NUMBER:	1952.1385
NAME OF SUBMITTER:	JONATHAN HERRIN
SIGNATURE:	/Jonathan Herrin/
DATE SIGNED:	03/26/2014

**Total Attachments: 7** 

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PATENT 502740114 REEL: 032536 FRAME: 0277

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### DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN **APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	VIA STRUCTURE HAVING OPEN STUB AND PRINTED CIRCUIT BOARD HAVING THE SAME	
As the belo	w named inventor, I hereby declare that:	
This declar	The suscined soongalion, or	
	United States application or PCT international application number	
	filed on	
The above-identified application was made or authorized to be made by me.		
I believe tha	t I am the original inventor or an original joint inventor of a claimed invention in the application.	
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.		
	WARNING:	
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.		
LEGAL NA	ME OF INVENTOR	
Inventor: _ Signature:	EE, Dong Hwan  Date (Optional): August 26, 2015	
Note: An appl Use an additio	cation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.  nal PTO/AIA/01 form for each additional inventor.	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Title of Invention	VIA STRUCTURE HAVING OPEN STUB AND PI THE SAME	RINTED CIRCUIT BOARD HAVING
As the below	w named inventor, I hereby declare that:	
This declaration is directed to:		
	United States application or PCT international applic	ation number
	filed on	
The above-l	identified application was made or authorized to be made by me.	
I believe tha	at I am the original inventor or an original joint inventor of a claimed	invention in the application.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.		
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LEGAL NA	AME OF INVENTOR	
Inventor: _	M/16	Date (Optional): Aug 16 20/3
	ication data sheet (PTO/SB/14 or equivalent), including naming the entire in	nventive entity, must accompany this form.

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Title of Invention	VIA STRUCTURE HAVING OPEN STUB AND PRINTED CIRCUIT BOARD HAVING THE SAME	
As the belo	w named inventor, I hereby declare that:	
This declaration The attached application, or is directed to:		
, o a o o o o	United States application or PCT international application number	
	filed on	
The above-i	dentified application was made or authorized to be made by me.	
I believe tha	t I am the original inventor or an original joint inventor of a claimed invention in the application.	
I hereby ack by fine or im	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 prisonment of not more than five (5) years, or both.	
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LEGAL NA	ME OF INVENTOR	
Inventor: _	CHRISTIAN ROMERO  Date (Optional): AV6 V5T 26, 2013	
Note: An appli Use an additio	cation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. nal PTO/AIA/01 form for each additional inventor.	

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As the below named inventor, I hereby declare that:		
This declaration directed to		
	United States application or PCT international application number	
	filed on	
The above-i	dentified application was made or authorized to be made by me.	
I believe tha	t I am the original inventor or an original joint inventor of a claimed invention in the application.	
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.		
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LEGAL NA	ME OF INVENTOR	
Inventor: _	WEON, Young Do Levell Date (Optional): 3. 29, 28/3	
Note: An appli	cation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. anal PTO/AIA/01 form for each additional inventor.	

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As the belo	w named inventor, I hereby declare that:	
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The above-i	dentified application was made or authorized to be made by me.	
I believe tha	t I am the original inventor or an original joint inventor of a claimed invention in the application.	
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.		
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LEGAL NA	AME OF INVENTOR	
Inventor: _ Signature:	KIM, Jin Gu  Date (Optional): Aug. 26, 2013	
Note: An appl Use an additio	ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.  nal PTO/AIA/01 form for each additional inventor.	

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Docket No.

# **U.S. ASSIGNMENT**

S&H 7/03

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S))

SAMSUNG Electro-Mechanics Co., Ltd. 150, Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do Republic of KOREA Postal code: 443-743

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled (Title of Invention)

# <u>VIA STRUCTURE HAVING OPEN STUB AND PRINTED CIRCUIT BOARD HAVING THE</u> SAME

executed on even date herewith or, if not so executed, was:	and/or for which application for Letters Patent of the Officer States was	
(a) executed on;	(Insert date of execution of application, if not concurrent)	
(b) filed on	Any registered attorney of STAAS & HALSEY LLP, 1201 New York Ave., N.W., Suite 700, Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.	
reissue or reexamination application based thereon, for the full to any extensions thereof (collectively, hereinafter, "said application	es granted on said application and any continuation, division, renewal, substitute term or terms for which the said Letters Patent(s) may be granted and including n(s) and Letters Patent(s)").  Et and without charge to but at the expense of said ASSIGNEE, to do all acts	
which the ASSIGNEE may deem necessary, desirable or expedie including in the preparation and prosecution of said application(s reexamination, or public use proceeding, and in any litigation or	ent, for securing, maintaining and enforcing protection for said invention, s) and the issuance of said Letters Patent(s), in any interference, reissue, other legal proceeding which may arise or be declared in relation to same, sucl ng separate assignments and declarations, taking all rightful oaths, providing	
IN WITNESS WHEREOF, the undersigned inventor(s) has (I (Typed Name & Signature of Inventor(s))	have) affixed his/her/their signature(s). (Date)	
1)LEE, Dong Hwan	August 26, 2013	
2) PARK, Seung Wook	Ang 26. 20/3	

PATENT REEL: 032536 FRAME: 0284

3)	CHRISTIAN ROMERO	A)60/57 26, 2013
4)	Young Do Lever	Ang 29, 2013
5)	KIM, Jin Gu	Aug. 26. 2013

PATENT REEL: 032536 FRAME: 0285

RECORDED: 03/26/2014