### 504389931 05/31/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4436628

		NEW ASSIGNMENT		
NATURE OF CONVEYAN	CE:	ASSIGNMENT		
CONVEYING PARTY DA	TA			
		Name	Execution Date	
SUNGIL BANG			01/09/2017	
GYOOSANG CHOI			01/09/2017	
BUMHO CHUN			01/09/2017	
JUNPYO KIM			01/09/2017	
CHANHEE HAN			01/09/2017	
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State/Country:	KOREA, REPUBLIC OF			
Postal Code:	16677			
PROPERTY NUMBERS Property Type		Number		
Application Number:		29605856		
CORRESPONDENCE DA Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email: Correspondent Name:	ATA sent to provided	<i>the e-mail address first; if that is unsu</i> <i>; if that is unsuccessful, it will be sent</i> 202-429-0020 oto@nsiplaw.com NSIP LAW		
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PATENT REEL: 042538 FRAME: 0485

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

#### DECLARATION

#### AUDIO DEVICE

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 above-identified application.

Thereby 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 filling date of the prior application and the national or PCT international filling 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 16677 Republic of Korea

and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements that are the subject of the application identified in the

above declaration, which is United States Application Number or PCT International Application Number

29/605,856	filed on	May 31, 2017	
20/000,000	1000 01	10103 01, 2011	

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.

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 treatiles 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

Page 1 of 3

PATENT REEL: 042538 FRAME: 0486

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

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.

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Page 2 of 3

#### D91096.0383

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

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Page 3 of 3

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