506126487 06/26/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHULYONG CHO	03/04/2020
EUNAH KIM	03/04/2020
CHANHEE HAN	03/04/2020
JIHAE LIM	03/04/2020

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number			
Application Number:	29739532			

CORRESPONDENCE DATA

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SIGNATURE: /Shabnam Nowrouzi/

DATE SIGNED: 06/26/2020

Total Attachments: 2

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PATENT REEL: 053045 FRAME: 0839

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COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

DECLARATION

Section and section in the section i	
As a below-named inventor, I hereby declare that this declaration is direct	ed to the application attached hereto
or to United States Application Number or PCT International Application N	lumber
filed on(if	fapplicable), entitled:
AUDIO DEVICE	w
The above-identified application was made or authorized to be made by m	18.
I believe I am the original inventor or an original joint inventor of a claimed application.	invention in the above-identified
I hereby acknowledge that any willful false statement made in this declaration 1001 by fine or imprisonment of not more than five (5) years, or both.	tion is punishable under 18 USC
I have reviewed and understand the contents of the above-identified applied	cation, including the claims.
I am aware of the duty to disclose to the United States Patent and Tradem me to be material to patentability as defined in 37 CFR 1.56, including for material information that became available between the filing date of the p PCT international filing date of the continuation-in-part application. ASSIGNMENT	continuation-in-part applications,
For valuable consideration, I, as a below-named assignor, hereby assign to	:0 :
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 Assign	ee"), 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 29/739,532 filed on June 26, 2020	
I authorize and request the attorneys appointed in the above-identified application number and the filing date when known, and to correct any typographical errors that may be discovered.	of the above-identified application red 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.

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COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

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	Chulyong CHO		
Inventor's Signature		Date	March 4.2020
Residence (City, Country)	Suwon-si, Republic of Korea		X
Mailing Address 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677, Republic of Korea			

Inventor's Legal Name	Eunah KIM		
Inventor's Signature	Lina.	Date	March 4, 2020
Residence (City, Country)	Suwon-si, Republic of Korea		
Mailing Address	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677, Republic of Korea		

Inventor's Legal Name	Chanhee HAN		
Inventor's Signature	4554	Date	March 42020
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Inventor's Legal Name	Jihae LIM	***************************************		
Inventor's Signature	1/10/7	Date	March	4,2020
Residence (City, Country)	Suwon-si, Republic of Korea			
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