504382696 05/24/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4429391

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SANG-BAE CHON	05/11/2017
SUN-MIN KIM	04/14/2017
YOON-JAE LEE	04/14/2017

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU, GYEONGGI-DO,
City:	SUWON-SI
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15525181	

CORRESPONDENCE DATA

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

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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SUGHRUE MION, PLLC **Correspondent Name:**

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ATTORNEY DOCKET NUMBER:	Q222785	
NAME OF SUBMITTER: INGRID CONTRERAS, TEAMS DEPT.		
SIGNATURE:	/Ingrid Contreras/	
DATE SIGNED:	05/24/2017	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 4

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> **PATENT** REEL: 042494 FRAME: 0303

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PATENT REEL: 042494 FRAME: 0304

Docket No.: Q222785 Samsung Ref.: MK2014070091US1 Only After Sept 16, 2012

ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

Whereas, We, the undersigned inventors hereinafter called assignors, have invented certain improvements described in the application identified below; and

Whereas, SAMSUNG ELECTRONICS CO., LTD. of 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America and all other countries, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and including rights of priority under the International Convention of Paris (1883) as amended, the laws of all foreign countries, and the laws of the United States including the right to claim priority under 35 USC 119 and the right to sue for past damages, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261)		
As the below named inventor, I hereby	y decla	are that:
This assignment with declaration is directed to:		The attached application, or
The application is entitled:	Ø	United States Application or PCT International Application Number $\underline{PCT/KR2015/010665}$ filed on $\underline{October~8,2015}$.

METHOD AND APPARATUS FOR RESTORING AUDIO SIGNAL

The above identified application was made or was 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 application.

I have reviewed and understand the contents of the application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

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

PATENT REEL: 042494 FRAME: 0305

NAME OF SOLE OR FIRST INVENTOR:				
Given Name				
(first and middle [if any]) Sang-bae	Family Name or Surname CHON			
(first and middle [if any]) Sang-bae Inventor's signature Namy Base Chon M	Date May 11th, 2017			
Residence: Suwon-si, Republic of Korea				
Mailing Address: 103-504, 110, Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea				
NAME OF SECOND INVENTOR:				
Given Name (first and middle [if any]) Sun-min	Family Name or Surname KIM			
Inventor's signature	Date			
Residence: Yongin-si, Republic of Korea				
Mailing Address: 507-2002, 110, Sinbong 1-ro, Suji-gu, Yongin-si, Gyeonggi-do, Republic of Korea				
NAME OF THIRD INVENTOR:				
Given Name (first and middle [if any]) Yoon-jae	Family Name or Surname LEE			
Inventor's signature	Date			
Residence: Seoul, Republic of Korea				
Mailing Address: 102-303, 19, Seogang-ro 9-gil, Mapo-gu, Seoul, Republic of Korea				

Docket No.:

O222785 Samsung Ref.: MK2014070091US1

Only After Sept 16, 2012

ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

Whereas, We, the undersigned inventors hereinafter called assignors, have invented certain improvements described in the application identified below; and

Whereas, SAMSUNG ELECTRONICS CO., LTD. of 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor.

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby self, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America and all other countries, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and including rights of priority under the International Convention of Paris (1883) as amended, the laws of all foreign countries, and the laws of the United States including the right to claim priority under 35 USC 119 and the right to sue for past damages, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261)			
As the below named inventor, I hereb	y deck	ire that:	
This assignment with declaration is directed to:		The attached application, or	
	Ø	United States Application or PCT International Application Number PCT/KR2015/010665 filed on October 8, 2015	
The application is entitled:			

METHOD AND APPARATUS FOR RESTORING AUDIO SIGNAL

The above identified application was made or was 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 application.

I have reviewed and understand the contents of the application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

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

PATENT

REEL: 042494 FRAME: 0307

NAME OF SOLE OR FIRST INVENTO)R:					
Given Name						
(first and middle [if any])	Sang-bac	Family Name or Surname	CHON			
Inventor's signature		Date	***************************************			
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NAME OF SECOND INVENTOR:						
Given Name (first and middle [if any])	Sue-esia	Family Name or Surname	KIM			
Inventor's signature	Visa	Date	April 16 2017			
Residence: Yongin-si, Bepublic of Korea						
Mailing Address: 507-2002, 110, Sinbong 1-to, Suji-gu, Yongin-si, Gyeonggi-do, Republic of Korea						
NAME OF THIRD INVENTOR:						
Given Name (first and middle (if any))	Y06в-jae	Family Name or Surname	LEE			
Inventor's signature	anjae Lee	Date	April, 14, 2019			
Residence: Seoul, Republic of Korea						
Mailing Address 182,303-19 Secarea to Quil Many ou Search Republic of Verses						

[Page 2]

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