503801767 04/27/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SUNG-JOO KIM	04/21/2016
JEONG-GUON IH	04/21/2016
JONG-BAE KIM	04/21/2016
JUNG-HAN WOO	04/21/2016

RECEIVING PARTY DATA

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City:	SUWON-SI
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677
Name:	KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15139735

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ATTORNEY DOCKET NUMBER: Q226501

> **PATENT** REEL: 038394 FRAME: 0317

503801767

NAME OF SUBMITTER:	SACHIKO REYNOLDS (TEAMS DEPT)	
SIGNATURE:	/Sachiko Reynolds (Teams Dept)/	
DATE SIGNED: 04/27/2016		
This document serves as an Oath/Declaration (37 CFR 1.63).		
Total Attachments: 6 source=Q226501Assignmentwit	hDeclarationExecuted#page1.tif	

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Docket No.: Q226501 Samsung Ref: MK2015100101US0 Only After Sept 16, 2012 **US Rights Only**

ASSIGNMENT WITH DECLARATION FOR PATENT APPLICATION (37 CFR 1.63)

특허 출원 관련 양도 및 선언(연방규칙집 제 37 조 1.63 항)

Korean Language Assignment with Declaration

이하 양도인으로 지정되는 하기 서명 발명자인 본안(등)은 아래에

이하 양도인으로 지칭되는 하기 서명 발명자인 본인(등)은 아래에 병시된 출원에서서 출한 특징 개선을 발명하였으므로 그리고	Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and
에 소재한 (강수인)는(은) 출원 및 발명의 그리고 이에 따라 획득될 일체의 미국 특허에 대한 모든 권리, 소유권 및 미권용 획득하기를 원하므로,	Whereas, SAMSUNG ELECTRONICS CO., LTD. of 129. Samsung-ro., Yeongtong-gu., Suwon-si., Gyeonggi-do., 16677. Republic of Korea and KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY of 291. Daehak-ro., Yuseong-gu., Daejeon, 34141, 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;
이제 대가를 위한 그 수령을 인정합니다.	Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,
당기 양도인인 본인(돌)은 상기 명칭의 양수인, 그 승계자 및 그 당수인에게모든 분할과 그연속을 포함하여 미국용으로 공개된 출원과 발명 그리고 그에 대해 중인될수 있는 미국의 모든 특허중서와 미합중국 코드 제 35 강 제8.19 항에 의거한 우선권 청구권과 과거의 손해에 대한 소송권을 포함한 모든 그 제발행에 대한 전체 권리, 소유권 및 이건을 판매, 양도 및 이건하여 그리고 본인(등)은 출원서에 제기된 발명에 대해 중인된 일체의 특허증서를 양수인, 그 승계자 또는 그 양수인에게 발급하도록 미국 특허청장에게 요청하는 바이며 또한 본인(들)은 당수인의 요청할 경우 미국 출원과 관련하여 양수인이 필요하다고 생각하는 모든 서류를 다 이상의 보수 없이 서명날인할것입니다.	I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, little and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 USC 119 and the right to sue for past damages, and I/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 I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.
공인은 기록을 위해 요구되자는 않지만 미합중국 크드 제 35 장 제8351 황예의거서명날인에대한일음의증거입니다)	(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261)
본인은 아래성명의 발명자로서 다음과 같이 선언합니다.	As the below named inventor, I hereby declare that:
본양도및선언서는다음사항을위한것입니다	This assignment with declaration is directed to:
□ 相片参程医는	The attached application, or
기합중국출원또는PCT 국제출원번호: 출원임:	United States Application or PCT International Application Number filed on
본 출원의 계목은 다음과 끝습니다.	The application is entitled:
	APPARATUS AND METHOD OF FORMING LOCALIZED VIBRATION FIELD, AND METHOD OF DISPOSING EXCITERS

Korean Language Assignment with Declaration

함에 표시된 출원은 본인이 신청하였거나 또는 신청하도록 허가를 받았습니다.

본인은, 본인이 본 출원에서 청구된 발명의 원 발명자 또는 원 공동 발명자라고민습니다.

본인은 본 양도 및 선언서 제출과 관련된 출원의 내용을 검토하였으며 나올러 이해합니다.

본인은 연방 규정 코드 제 37 강 개 156 항에 규정된 바에 따라, 특하성의 환단에 중요한본인이 아는 모든 정보를 특허정에 공개할 의무가 있음을 탈고 있습니다.

본 왕도 및 선언서 내에 의도적 허위 진술이 있을 경우 미합중국 코드 제 18장의 KOI 항에 의거 벌금이나 5년 이라의 경역 또는 두 가지 처럼을 모두받을 수 있음을 인정합니다. 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.

STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):

The assignment with declaration is an accurate translation of the corresponding English language assignment with declaration.

ang lep inter-

Signature

Date March 17, 2014

NAME OF SOLE OR FIRST INVENTOR: 단독 혹은 최고 발명자의 성명	
Given Name (first and middle [if any]) 이용(성위는 제외) Sung-joo	Pamily Name or Surname 写(姓) KIM
Inversor's signature 알딩거의 시명 기술 세기	Date 일자 그(6,4,2)
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Mailing Address: 우평후소: 6202-602, 34, Central park-ro, Yeongtung-gu, Suwur	n-si, Gyeonggi-do, Republic of Korea
NAME OF SECOND INVENTOR: 두번째 알맹자의 성명	
Given Name (first and middle (if any)) 이용(성의는 제외) Jeong-guon	Family Name or Surnams では) IH
Invenior's signature 칼덩가의 서명	Date 영자
Residence: 月辛利: Daejeon, Republic of Kores	
Mailing Address: 후원주소: 29 i Dachak-ro, Yuseong-gu, Daejeon, Republic of K	orea
NAME OF THIRD INVENTOR: 세번째 발명자의 성명	
Given Name (first and middle (if any)) 이용(성씨는 제외) Jong-bae	Family Name or Surname 分(性) KIM
Inventor's signsture 발명자의 시명 기요가 (주요)	Date 27 2016 . 4,21
Residence: 겨추기: Seoul, Republic of Korea	
Mailing Address: 후원주소: 113-1112, 91, Baumoe-ro, Seocho-gu, Seoul, Republ	ic of Koma
NAME OF FOURTH INVENTOR: 세면째 발명자의 성명	
Given Name (first and middle (ii my)) 역용(설위는 제외) Jung-han	Family Name or Surname (記述) WOO
Inventor's signature 발명자의 서명	Date 설계
Residence: 거주지: Daejeon, Republic of Korea	
Mailing Address: 우편주소: 291 Dachak-ro, Yuscong-gu, Dacjeon, Republic, Rep	whic of Kores

Docket No.: Q226501

Samsung Ref: MK2015100101US0

Only After Sept 16, 2012 US Rights Only

ASSIGNMENT WITH DECLARATION FOR PATENT APPLICATION (37 CFR 1.63)

특허 출원 관련 양도 및 선언(연방규칙집 제 37 조 1.63 항)

Korean Language Assignment with Declaration

이하 양도인으로 지칭되는 하기 서명 발명자인 본인(들)은 아래에 명시된출원에서서술한특정개선을발명하였으므로그리고	Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and
에 소재한(양수인)는(은) 출원 및 발명의 그리고 이에 따라 획득될일체의 미국 특허에 대한 모든 권리, 소유권 및 이권을 획득하기를 원하므로,	Whereas, <u>SAMSUNG ELECTRONICS CO., LTD.</u> of 129. Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677. Republic of Korea and KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY of 291, Daehak-ro, Yuseong-gu. <u>Daejeon, 34141, Republic of Korea</u> , (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;
이제 대가를 위한 그 수령을 인정합니다.	Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,
상기 양도인인 본인(들)은 상기 명칭의 양수인, 그 승계자 및 그양수인에게 모든분할과 그연속을 포함하여 미국용으로 공개된출원과 발명 그리고 그에 대해 승인될수 있는 미국의 모든 특허증서와 미합증국 코드 제 35장 제§119 항에 의거한 우선권 청구권과 과거의 손해에 대한 소송권을 포함한 모든 그 재발행에 대한 전체 권리, 소유권 및 이권을 판매, 양도 및 이전하며 그리고 본인(들)은 출원서에 제시된 발명에 대해 승인된 일체의 특허증서를 양수인, 그 승계자 또는 그 양수인에게 발급하도록 미국 특허청장에게 요청하는 바이며 또한 본인(들)은 양수인의 요청할 경우 미국 출원과 관련하여 양수인이 필요하다고 생각하는 모든서류를 더 이상의보수없이 서명날인할것입니다.	I/We, the above named assignor(s), 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, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 USC 119 and the right to sue for past damages, and I/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 I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.
(공인은 기록을 위해 요구되지는 않지만 미합중국 코드 제 35 장 제\$261 항에 의거서명날인에 대한일웅의증거입니다)	(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261)
본인은 아래 성명의 발명자로서 다음과 같이 선언합니다.	As the below named inventor, I hereby declare that:
본 양도 및 선언서는 다음 사항을 위한 것입니다:	This assignment with declaration is directed to:
★ 첨부출원또는	∑ The attached application, or
□ 미합중국출원또는PCT 국제출원번호: 출원일:	United States Application or PCT International Application Number filed on
본출원의제목은다음과같습니다:	The application is entitled:
	APPARATUS AND METHOD OF FORMING LOCALIZED VIBRATION FIELD, AND METHOD OF DISPOSING EXCITERS

[Page 1]

Korean Language Assignment with Declaration

위에 표시된 출원은 본인이 신청하였거나 또는 신청하도록 허가를 받았습니다.

본인은, 본인이 본 출원에서 청구된 발명의 원 발명자 또는 원 공동 발명자라고믿습니다.

본인은 본 양도 및 선언서 제출과 관련된 출원의 내용을 검토하였으며 아울러 이해합니다.

본인은 연방 규정 코드 제 37 장 제 156 항에 규정된 바에 따라, 특허성의 판단에 중요한본인이 아는 모든 정보를 특허청에 공개할 의무가 있음을 알고 있습니다.

본 양도 및 선언서 내에 의도적 허위 진술이 있을 경우 미합중국 코드 제 18장의 1001 항에 의거 벌금이나 5년 이하의 징역 또는 두 가지 처벌을 모두받을 수 있음을 인정합니다. 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.

STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):

The assignment with declaration is an accurate translation of the corresponding English language assignment with declaration.

age (19 procedure)

Signature

Date

[Page 2]

March 17, 2014

PATENT

REEL: 038394 FRAME: 0323

NAME OF SOLE OR FIRST INVENTOR: 문학 혹은 최조 발명자의 성명		
Given Name (first and middle [if any]) 이용(성씨는 정의) Sung ion	Family Name or Surname 哲(姓)	
3mig-100	(S (XE) KIM	
inventon's signature স্থান্ত্রমান্ত্রমান্ত্রমান্ত্রমান্ত্রমান্ত্রমান্ত্রমান্ত্রমান্ত্রমান্ত্রমান্ত্রমান্ত্রমান্ত্রমান্ত্রমান্ত্রমান্ত	Date 및 자	
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Mailing Address:	NO 23 N. 495 AV	
BAUL-ONE, 34, ECHRER PERSON, I CONGENESCE, SERVOR	1-si, Cyconegi-do, Republic of Korea	
NAME OF SECOND INVENTOR: 두번째 활용자의 성명		
Given Name (first and middle [if any]) 이용(성씨는 저희) Jeong-guon	Family Name or Surname 智 (姓) IH	
Inventor's signature 활용자의 서명 기자에	Date 21/04/2016	
Residence: 거추지: Daejeon, Republic of Korea		
Mailing Address:	OP 607	
271 DRESSETO, TUSCORE-EG, DESCOU, ACRESIC OF A		
NAME OF THIRD INVENTOR: 서면적 발전자의 경영	,	
Given Name (first and middle (if any)) 이용(성의는 제외) Jong-bae	Family Name or Surname 智 (姓) KIM	
Inventor's signature 발명자의 서정	Date V	
Residence: ^{거주지:} Seoul, Republic of Korea		
Mailing Address: 等題等意: 113-1112, 91, Baumoc-ro, Scocho-gu, Scoul, Republ	is of Korea	
NAME OF FOURTH INVENTOR:	10-31-32-32-32-33-33-33-33-33-33-33-33-33-33-	
	T	
Given Name (first and middle [if any]) অস্কু(প্রম্ভন্ম প্র) Jung-han	Family Name or Surname 質(姓) WOO	
Inventor's signature 緊要來與 科爾	Date 2016 / 4 / 21	
Residence: 연호되는 Daejeon, Republic of Korea		
Mailing Address:		
子ピキネ 291 Daehak-ro, Yuseong-gu, Daejeon, Republic, Rep	ublic of Korea	
[Page 3]		