

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YOUNG IHN KHO	02/04/2016
HEE SAE LEE	01/20/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAMSUNG ELECTRONICS CO., LTD.
<b>Street Address:</b>	129, SAMSUNG-RO, YEONGTONG-GU, GYEONGGI-DO
<b>City:</b>	SUWON-SI
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	16677
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14902905
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)293-7060
<i>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.</i>	
<b>Email:</b>	sughrue@sughrue.com, csouthcott@sughrue.com
<b>Correspondent Name:</b>	SUGHRUE MION, PLLC
<b>Address Line 1:</b>	2100 PENNSYLVANIA AVE. NW
<b>Address Line 2:</b>	SUITE 800
<b>Address Line 4:</b>	WASHINGTON, D.C. 20037
<b>ATTORNEY DOCKET NUMBER:</b>	Q224125
<b>NAME OF SUBMITTER:</b>	CHRIS SOUTHCOTT
<b>SIGNATURE:</b>	/Chris Southcott/
<b>DATE SIGNED:</b>	02/11/2016
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 6</b>	
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ASSIGNMENT WITH DECLARATION FOR PATENT APPLICATION (37 CFR 1.63)

특허 출원 관련 양도 및 선언 (연방규칙집 제37조 1.63항)

Korean Language Assignment with Declaration

이하 양도인으로 지칭되는 하기 서명 발명자인 본인(들)은 아래에  
명시된 출원에서 서술한 특정 개선을 발명하였으므로 그리고

에 소재한 (양수인)는(은) 출원 및 발명의  
그리고 이에 따라 획득될 일체의 미국 특허에 대한 모든 권리, 소유권  
및 이권을 획득하기를 원하므로,

이제 대가를 위한 그 수령을 인정합니다.

상기 양도인인 본인(들)은 상기 명칭의 양수인, 그 승계자 및 그  
양수인에게 모든 분할과 그 연속을 포함하여 미국 용으로 공개된  
출원과 발명 그리고 그에 대해 승인될 수 있는 미국의 모든 특허증서와  
미합중국 코드 제 35장 제 119항에 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 모든 서류를 더 이상의 보수 없이 서명날인할  
것입니다.

(공인은 기록을 위해 요구되지는 않지만 미합중국 코드 제 35장  
제 261항에 의거 서명날인에 대한 일종의 증거입니다)

본인은 아래 성명의 발명자로서 다음과 같이 선언합니다.

본 양도 및 선언서는 다음 사항을 위한 것입니다:

- ☒ 첨부 출원 또는  
☐ 미합중국 출원 또는 PCT  
국제출원 번호: \_\_\_\_\_  
출원일: \_\_\_\_\_

본 출원의 제목은 다음과 같습니다:

Whereas, I/We, the undersigned inventor(s) hereinafter called  
assignor(s), 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, 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,

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.

(Legalization not required for recording but is prima facie evidence  
of execution under 35 USC 261)

As the below named inventor, I hereby declare that:

This assignment with declaration is directed to:

- ☒ The attached application, or  
☐ United States Application or PCT International  
Application Number \_\_\_\_\_ filed on  
\_\_\_\_\_.

The application is entitled:

ULTRASONIC IMAGING APPARATUS AND CONTROL  
METHOD THEREOF

## 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 발명자라고 믿습니다.

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

본인은 연방 규정 코드 제 37장 제 1.56항에 규정된 바에 따라 특허성의 판단에 중요한 본인이 아는 모든 정보를 특허청에 공개할 의무가 있음을 알고 있습니다.

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

Signature

Date



March 17, 2014

**NAME OF SOLE OR FIRST INVENTOR:**

단독 혹은 최초 발명자의 성명

Given Name (first and middle (if any))

이름(성씨는 제외)

Young Ihn

Family Name or Surname

성(姓)

KHO

Inventor's signature

발명자의 서명

Date

일자

Residence:

거주지:

Seoul, Republic of Korea

Mailing Address:

우편 주소:

2917, Nambusunhwan-ro, Gangnam-gu Seoul 135-838 Republic of Korea

**NAME OF SECOND INVENTOR:**

두번째 발명자의 성명

Given Name (first and middle (if any))

이름(성씨는 제외)

Hee Sae

Family Name or Surname

성(姓)

LEE

Inventor's signature

발명자의 서명

*Hee Sae*

Date

일자

January 20, 2016

Residence:

거주지:

Yongin-si, Republic of Korea

Mailing Address:

우편 주소:

97, Samsung 2-ro, Giheung-gu, Yongin-si Gyeonggi-do 446-920 Republic of Korea

Doc code: Oath  
Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)  
Approved for use through 01/31/2014. OMB 0651-0032  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY  
OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)**

Title of Invention	ULTRASONIC IMAGING APPARATUS AND CONTROL METHOD THEREOF		
This statement is directed to:			
<input type="checkbox"/> The attached application,			
OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/902,905</u> filed on <u>January 5, 2016</u>			
LEGAL NAME of inventor to whom this substitute statement applies:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Young Ihn KHO			
Residence (except for a deceased or legally incapacitated inventor):			
City	State	Country	
Seoul		KR	
Mailing Address (except for a deceased or legally incapacitated inventor):			
2917, Nambusunhwan-ro, Gangnam-gu			
City	State	Zip	Country
Seoul		135-838	KR
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only).			
<input type="checkbox"/> Assignee.			
<input checked="" type="checkbox"/> Person to whom the inventor is under an obligation to assign.			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint Inventor.			

[Page 1 of 2]

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 1480, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1455, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-6199 and select option 2.

**PATENT**  
**REEL: 037715 FRAME: 0832**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- ☐ Inventor is deceased,  
☐ Inventor is under legal incapacity,  
☒ Inventor cannot be found or reached after diligent effort, or  
☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

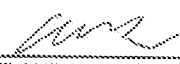
- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

### 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.

### PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: **Ares Lee** Date (Optional): **2016.2.4**

Signature: 

### APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

If the applicant is a juristic entity, list the applicant name and the title of the signer:

**Samsung Electronics Co., Ltd.**

Applicant Name:

Title of Person Executing This Substitute Statement: **IP Manager, IP Prosecution Group, DMC R&D Center**

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City **Suwon-si** State **Gyeonggi-do** Country **KR**

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

**129, Samsung-ro, Yeongtong-gu**

City **Suwon-si** State **Gyeonggi-do** Zip Country **KR**

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(h) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

**PATENT**

**REEL: 037715 FRAME: 0834**

**RECORDED: 02/11/2016**