

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5486241

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HYEONG JUN KIM	02/13/2018
JI GOO KANG	02/14/2018
JONG HUN LEE	02/13/2018
JEONG BEOM LEE	02/13/2018
JONG HYUNG JUNG	02/13/2018
RECEIVING PARTY DATA	
Name:	CK MATERIALS LAB CO., LTD.
Street Address:	ACETECHNOTOWER 8-CHA, GURO-DONG, NO. 1205,
Internal Address:	11, DIGITAL-RO 33-GIL, GURO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	08380
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15763210
CORRESPONDENCE DATA	
Fax Number:	(312)464-3111
<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>	
Phone:	3124643100
Email:	chpatent@loeb.com
Correspondent Name:	LOEB & LOEB LLP
Address Line 1:	321 N. CLARK STREET
Address Line 2:	SUITE 2300
Address Line 4:	CHICAGO, ILLINOIS 60654
ATTORNEY DOCKET NUMBER:	230421-30003
NAME OF SUBMITTER:	ANDREW R. SMITH, REG. NO. 62162
SIGNATURE:	/Andrew R. Smith/
DATE SIGNED:	04/22/2019

Total Attachments: 10

source=30003#page1.tif
source=30003#page2.tif
source=30003#page3.tif
source=30003#page4.tif
source=30003#page5.tif
source=30003#page6.tif
source=30003#page7.tif
source=30003#page8.tif
source=30003#page9.tif
source=30003#page10.tif

**Combined Assignment And Declaration
(Under 37 C.F.R. § 1.63) For Patent Application**

I am a named inventor and declare that:

I believe that I am an original inventor or an original joint inventor of a claimed invention in the application entitled:

Insert Title:

METHOD FOR CONVERTING ACOUSTIC SIGNAL INTO HAPTIC SIGNAL, AND HAPTIC DEVICE USING SAME

which is:

is being filed with this Declaration. I authorize and request my attorneys, Loeb & Loeb LLP of 321 N Clark St, Suite 2300, Chicago, IL, 60654-4746, to insert here in parentheses (Application Serial No.: 15/763,210, filed: March 26, 2018) the filing date and application number of said application when known,

was filed on _____ as United States application or PCT international application number _____.

(if checked) and was amended on _____.

The above-identified application was made or authorized to be made by me.

I have been advised of the duty to review and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to in the oath or declaration.

I have also been advised of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 C.F.R. § 1.56.

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

ASSIGNMENT

WHEREAS, the undersigned inventor ("ASSIGNOR") is an original inventor of the subject matter described in the above-identified application ("INVENTION"); and

WHEREAS, CK Materials Lab Co., Ltd., a Republic of Korea corporation, with a principal place of business at Acetechnotower 8-cha, Guro-dong, No. 1205, 11, Digital-ro 33-gil, Guro-gu, Seoul 08380 Republic of Korea ("ASSIGNEE"), is desirous of acquiring the entire right, title, and interest in, to, and under the INVENTION and any United States or foreign patent rights to be filed or obtained for that INVENTION.


NOW THEREFORE, TO ALL WHOM IT MAY CONCERN:

For good and valuable consideration, the receipt and sufficiency of which are acknowledged, ASSIGNOR sells, assigns and transfers to ASSIGNEE, the full and exclusive right, title, and interest in, to, and under the INVENTION, and any patent applications filed for the INVENTION in the United States, whether provisional, non-provisional, or any other type (collectively, "APPLICATIONS"), and all United States Letters Patents to be obtained for the INVENTION based on any of the APPLICATIONS or any non-provisional, continuation, continuation-in-part, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR also assigns all of their rights, title and interest in, to, and under the INVENTION and related intellectual property rights in all foreign countries, including all patent applications which may evolve from the INVENTION and those rights and all issued patents, certificates or other similar rights obtained for the INVENTION and those rights, including the right to claim International Convention priority.

ASSIGNOR covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon ASSIGNOR'S request, be provided promptly with all pertinent facts and documents relating to the APPLICATIONS, the INVENTION and any such related Letters Patent as may be (or later become) known and accessible to ASSIGNOR, and ASSIGNOR will testify as to the same in any Patent Office proceeding or litigation related to the INVENTION and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for obtain, maintain and enforce the APPLICATIONS, the INVENTION and the Letters Patent which may be necessary or desirable to carry out the purposes of this Assignment.

Legal Name of Inventor	KIM, Hyeong Jun	
Inventor's Signature		Date: Feb 13, 2018

**Combined Assignment And Declaration
(Under 37 C.F.R. § 1.63) For Patent Application**

I am a named inventor and declare that:

I believe that I am an original inventor or an original joint inventor of a claimed invention in the application entitled:

Insert Title:

METHOD FOR CONVERTING ACOUSTIC SIGNAL INTO HAPTIC SIGNAL, AND HAPTIC DEVICE USING SAME

which is:

is being filed with this Declaration. I authorize and request my attorneys, Loeb & Loeb LLP of 321 N Clark St, Suite 2300; Chicago, IL, 60654-4746, to insert here in parentheses (Application Serial No.: 15/763,210, filed: March 26, 2018) the filing date and application number of said application when known,

was filed on _____ as United States application or PCT international application number _____.

(if checked) and was amended on _____.

The above-identified application was made or authorized to be made by me.

I have been advised of the duty to review and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to in the oath or declaration.

I have also been advised of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 C.F.R. § 1.56.

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

ASSIGNMENT

WHEREAS, the undersigned inventor ("ASSIGNOR") is an original inventor of the subject matter described in the above-identified application ("INVENTION"); and

WHEREAS, CK Materials Lab Co., Ltd., a Republic of Korea corporation, with a principal place of business at Acetechnotower 8-chs, Guro-dong, No. 1205, 11, Digital-ro 33-gil, Guro-gu Seoul 08380 Republic of Korea ("ASSIGNEE"), is desirous of acquiring the entire right, title, and interest in, to, and under the INVENTION and any United States or foreign patent rights to be filed or obtained for that INVENTION.

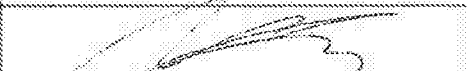
NOW THEREFORE, TO ALL WHOM IT MAY CONCERN:

For good and valuable consideration, the receipt and sufficiency of which are acknowledged, ASSIGNOR sells, assigns and transfers to ASSIGNEE, the full and exclusive right, title, and interest in, to, and under the INVENTION, and any patent applications filed for the INVENTION in the United States, whether provisional, non-provisional, or any other type (collectively, "APPLICATIONS"), and all United States Letters Patents to be obtained for the INVENTION based on any of the APPLICATIONS or any non-provisional, continuation, continuation-in-part, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR also assigns all of their rights, title and interest in, to, and under the INVENTION and related intellectual property rights in all foreign countries, including all patent applications which may evolve from the INVENTION and those rights and all issued patents, certificates or other similar rights obtained for the INVENTION and those rights, including the right to claim International Convention priority.

ASSIGNOR covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon ASSIGNOR'S request, be provided promptly with all pertinent facts and documents relating to the APPLICATIONS, the INVENTION and any such related Letters Patent as may be (or later become) known and accessible to ASSIGNOR, and ASSIGNOR will testify as to the same in any Patent Office proceeding or litigation related to the INVENTION and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for obtain, maintain and enforce the APPLICATIONS, the INVENTION and the Letters Patent which may be necessary or desirable to carry out the purposes of this Assignment.

Legal Name of Inventor	KANG, Ji Goo	
Inventor's Signature		Date: 14. Feb 2018

Combined Assignment And Declaration (Under 37 C.F.R. § 1.63) For Patent Application

I am a named inventor and declare that:

I believe that I am an original inventor or an original joint inventor of a claimed invention in the application entitled:

Insert Title:

METHOD FOR CONVERTING ACOUSTIC SIGNAL INTO HAPTIC
SIGNAL, AND HAPTIC DEVICE USING SAME

which is:

is being filed with this Declaration. I authorize and request my attorneys, Loeb & Loeb LLP of 321 N Clark St, Suite 2300; Chicago, IL, 60654-4746, to insert here in parentheses (Application Serial No.: 15/763,210 _____, filed: March 26, 2018) the filing date and application number of said application when known.

was filed on _____ as United States application or PCT international application number _____.

(if checked) and was amended on _____.

The above-identified application was made or authorized to be made by me.

I have been advised of the duty to review and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to in the oath or declaration.

I have also been advised of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 C.F.R. § 1.56.

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

ASSIGNMENT

WHEREAS, the undersigned inventor ("ASSIGNOR") is an original inventor of the subject matter described in the above-identified application ("INVENTION"); and

WHEREAS, CK Materials Lab Co., Ltd., a Republic of Korea corporation, with a principal place of business at Acetechnotower 8-cha, Guro-dong, No. 1205, 11, Digital-ro 33-gil, Guro-gu Seoul 08380 Republic of Korea ("ASSIGNEE"), is desirous of acquiring the entire right, title, and interest in, to, and under the INVENTION and any United States or foreign patent rights to be filed or obtained for that INVENTION.


NOW THEREFORE, TO ALL WHOM IT MAY CONCERN:

For good and valuable consideration, the receipt and sufficiency of which are acknowledged, ASSIGNOR sells, assigns and transfers to ASSIGNEE, the full and exclusive right, title, and interest in, to, and under the INVENTION, and any patent applications filed for the INVENTION in the United States, whether provisional, non-provisional, or any other type (collectively, "APPLICATIONS"), and all United States Letters Patents to be obtained for the INVENTION based on any of the APPLICATIONS or any non-provisional, continuation, continuation-in-part, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR also assigns all of their rights, title and interest in, to, and under the INVENTION and related intellectual property rights in all foreign countries, including all patent applications which may evolve from the INVENTION and those rights and all issued patents, certificates or other similar rights obtained for the INVENTION and those rights, including the right to claim International Convention priority.

ASSIGNOR covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon ASSIGNOR'S request, be provided promptly with all pertinent facts and documents relating to the APPLICATIONS, the INVENTION and any such related Letters Patent as may be (or later become) known and accessible to ASSIGNOR, and ASSIGNOR will testify as to the same in any Patent Office proceeding or litigation related to the INVENTION and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for obtain, maintain and enforce the APPLICATIONS, the INVENTION and the Letters Patent which may be necessary or desirable to carry out the purposes of this Assignment.

Legal Name of Inventor	LEE, Jong Hun	
Inventor's Signature		Date: 2018.02.13

**Combined Assignment And Declaration
(Under 37 C.F.R. § 1.63) For Patent Application**

I am a named inventor and declare that:

I believe that I am an original inventor or an original joint inventor of a claimed invention in the application entitled:

Insert Title:

METHOD FOR CONVERTING ACOUSTIC SIGNAL INTO HAPTIC SIGNAL, AND HAPTIC DEVICE USING SAME

which is:

is being filed with this Declaration. I authorize and request my attorneys, Loeb & Loeb LLP of 321 N Clark St, Suite 2300; Chicago, IL, 60654-4746, to insert here in parentheses (Application Serial No.: 15/763,210, filed: March 26, 2018) the filing date and application number of said application when known.

was filed on _____ as United States application or PCT international application number _____.

(if checked) and was amended on _____.

The above-identified application was made or authorized to be made by me.

I have been advised of the duty to review and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to in the oath or declaration.

I have also been advised of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 C.F.R. § 1.56.

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

ASSIGNMENT

WHEREAS, the undersigned inventor ("ASSIGNOR") is an original inventor of the subject matter described in the above-identified application ("INVENTION"); and

WHEREAS, CK Materials Lab Co., Ltd., a Republic of Korea corporation, with a principal place of business at Acetechnotower 8-cha, Guro-dong, No. 1205, 11, Digital-ro 33-gil, Guro-gu Seoul 08380 Republic of Korea ("ASSIGNEE"), is desirous of acquiring the entire right, title, and interest in, to, and under the INVENTION and any United States or foreign patent rights to be filed or obtained for that INVENTION.


NOW THEREFORE, TO ALL WHOM IT MAY CONCERN:

For good and valuable consideration, the receipt and sufficiency of which are acknowledged, ASSIGNOR sells, assigns and transfers to ASSIGNEE, the full and exclusive right, title, and interest in, to, and under the INVENTION, and any patent applications filed for the INVENTION in the United States, whether provisional, non-provisional, or any other type (collectively, "APPLICATIONS"), and all United States Letters Patents to be obtained for the INVENTION based on any of the APPLICATIONS or any non-provisional, continuation, continuation-in-part, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR also assigns all of their rights, title and interest in, to, and under the INVENTION and related intellectual property rights in all foreign countries, including all patent applications which may evolve from the INVENTION and those rights and all issued patents, certificates or other similar rights obtained for the INVENTION and those rights, including the right to claim International Convention priority.

ASSIGNOR covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon ASSIGNOR'S request, be provided promptly with all pertinent facts and documents relating to the APPLICATIONS, the INVENTION and any such related Letters Patent as may be (or later become) known and accessible to ASSIGNOR, and ASSIGNOR will testify as to the same in any Patent Office proceeding or litigation related to the INVENTION and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for obtain, maintain and enforce the APPLICATIONS, the INVENTION and the Letters Patent which may be necessary or desirable to carry out the purposes of this Assignment.

Legal Name of Inventor	LEE, Jeong Beom	
Inventor's Signature		Date: 2018. 2. 13

**Combined Assignment And Declaration
(Under 37 C.F.R. § 1.63) For Patent Application**

I am a named inventor and declare that:

I believe that I am an original inventor or an original joint inventor of a claimed invention in the application entitled:

Insert Title:

METHOD FOR CONVERTING ACOUSTIC SIGNAL INTO HAPTIC SIGNAL, AND HAPTIC DEVICE USING SAME

which is:

is being filed with this Declaration. I authorize and request my attorneys, Loeb & Loeb LLP of 321 N Clark St, Suite 2300, Chicago, IL, 60654-4746, to insert here in parentheses (Application Serial No.: 15/763,210, filed: March 26, 2018) the filing date and application number of said application when known,

was filed on _____ as United States application or PCT international application number _____.

(if checked) and was amended on _____.

The above-identified application was made or authorized to be made by me.

I have been advised of the duty to review and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to in the oath or declaration.

I have also been advised of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 C.F.R. § 1.56.

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

ASSIGNMENT

WHEREAS, the undersigned inventor ("ASSIGNOR") is an original inventor of the subject matter described in the above-identified application ("INVENTION"); and

WHEREAS, CK Materials Lab Co., Ltd., a Republic of Korea corporation, with a principal place of business at Acetechnotower 8-cha Guro-dong No. 1205 11 Digital-ro 33-gil Guro-gu Seoul 08380 Republic of Korea ("ASSIGNOR"), is desirous of acquiring the entire right, title, and interest in, to, and under the INVENTION and any United States or foreign patent rights to be filed or obtained for that INVENTION.


NOW THEREFORE, TO ALL WHOM IT MAY CONCERN:

For good and valuable consideration, the receipt and sufficiency of which are acknowledged, ASSIGNOR sells, assigns and transfers to ASSIGNEE, the full and exclusive right, title, and interest in, to, and under the INVENTION, and any patent applications filed for the INVENTION in the United States, whether provisional, non-provisional, or any other type (collectively, "APPLICATIONS"), and all United States Letters Patents to be obtained for the INVENTION based on any of the APPLICATIONS or any non-provisional, continuation, continuation-in-part, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR also assigns all of their rights, title and interest in, to, and under the INVENTION and related intellectual property rights in all foreign countries, including all patent applications which may evolve from the INVENTION and those rights and all issued patents, certificates or other similar rights obtained for the INVENTION and those rights, including the right to claim International Convention priority.

ASSIGNOR covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon ASSIGNOR'S request, be provided promptly with all pertinent facts and documents relating to the APPLICATIONS, the INVENTION and any such related Letters Patent as may be (or later become) known and accessible to ASSIGNOR, and ASSIGNOR will testify as to the same in any Patent Office proceeding or litigation related to the INVENTION and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for obtain, maintain and enforce the APPLICATIONS, the INVENTION and the Letters Patent which may be necessary or desirable to carry out the purposes of this Assignment.

Legal Name of Inventor	JUNG, Jong Hyung	
Inventor's Signature		Date: 2018.2.13