504642800 11/15/2017 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4689521

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY DA	ΑΤΑ		
		Name	Execution Date
HYEONJIN SHIN			11/13/2017
RECEIVING PARTY DA	ТА		
Name:	SAMSU	ING ELECTRONICS CO., LTD.	
Street Address:	129 SAI	MSUNG-RO, YEONGTONG-GU	
City:	SUWON	N-SI, GYEONGGI-DO	
State/Country:	KOREA	, REPUBLIC OF	
Postal Code:	16677		
PROPERTY NUMBERS	Total: 1		
Property Type		Number	
Application Number:		15810679	
CORRESPONDENCE D Fax Number:		(703)668-8200	
Fax Number: <i>Correspondence will be using a fax number, if µ</i> Phone:) e sent to provided	the e-mail address first; if that is unsucc ; if that is unsuccessful, it will be sent via 703-668-8000	
Fax Number: <i>Correspondence will be using a fax number, if µ</i> Phone: Email:) e sent to provided 7 0	<i>the e-mail address first; if that is unsucc</i> <i>; if that is unsuccessful, it will be sent via</i> 703-668-8000 dcmailroom@hdp.com	
Fax Number: <i>Correspondence will be using a fax number, if µ</i> Phone: Email: Correspondent Name:	(e sent to provided ; ; ; ;	<i>the e-mail address first; if that is unsucc ; if that is unsuccessful, it will be sent via</i> 703-668-8000 dcmailroom@hdp.com HARNESS, DICKEY & PIERCE, P.L.C.	
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Fax Number: <i>Correspondence will be using a fax number, if µ</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	(e sent to provided ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	the e-mail address first; if that is unsuce ; if that is unsuccessful, it will be sent via 703-668-8000 dcmailroom@hdp.com HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VIRGINIA 20195	a US Mail.
Fax Number: <i>Correspondence will be using a fax number, if µ</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	(e sent to provided ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	the e-mail address first; if that is unsuce ; if that is unsuccessful, it will be sent via 703-668-8000 dcmailroom@hdp.com HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VIRGINIA 20195 2557SI-002668-US	a US Mail.
Fax Number: <i>Correspondence will be using a fax number, if µ</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NU	(e sent to provided ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	the e-mail address first; if that is unsuce ; if that is unsuccessful, it will be sent via 703-668-8000 dcmailroom@hdp.com HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VIRGINIA 20195 2557SI-002668-US JOHN A. CASTELLANO REG. NO. 35	a US Mail.
Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NU IAME OF SUBMITTER: BIGNATURE:	(e sent to provided ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	the e-mail address first; if that is unsuce ; if that is unsuccessful, it will be sent via 703-668-8000 dcmailroom@hdp.com HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VIRGINIA 20195 2557SI-002668-US JOHN A. CASTELLANO REG. NO. 35 /John A. Castellano/	a US Mail.
Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: Address Line 4: ATTORNEY DOCKET NUME IAME OF SUBMITTER: DATE SIGNED: Total Attachments: 6 ource=2017_11_13_Dec	(e sent to provided 7 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the e-mail address first; if that is unsuce ; if that is unsuccessful, it will be sent via 703-668-8000 dcmailroom@hdp.com HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VIRGINIA 20195 2557SI-002668-US 2557SI-002668-US JOHN A. CASTELLANO REG. NO. 35 /John A. Castellano/ 11/15/2017	a US Mail.
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COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM¹ FOR MORE THAN ONE ASSIGNEE

The undersigned acknowledge that this document is being used both as an assignment of the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application.

WHEREAS, the undersigned inventors have invented:

Title: TRIBOELECTRIC GENERATOR

for which Inventors are about to make or has made United States or International application for patent.

WHEREAS, as a below named inventor(s), I/(we) hereby declare that:

Section I. Declaration

This declaration is directed to:



U.S. non-provisional patent application number ______, filed on _____, or

REEL: 044128 FRAME: 0811

PCT international patent application number ______, filed on

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

I (we) believe that I am (we are) the original inventor (original joint inventors) of a claimed invention in the above-identified application.

I (we) hereby 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.

SEC Ref No. RS-201608-008-1-US0 Attorney Ref No. 2557SI-002668-US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM PATENT

¹ This form requires the use of an Application Data Sheet.

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

Section II. Assignment

in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, collectively referred to in Section II as Assignors in this section, hereby sell(s) and assign(s) to

Samsung Electronics Co., Ltd.

having an address at **129**, **Samsung-ro**, **Yeongtong-gu**, **Suwon-si**, **Gyeonggi-do 16677**, **Republic of Korea** (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section I of this document.

Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part,

SEC Ref No.	RS-201608-008-1-US0	Attorney Ref No.	2557SI-002668-US

SAMSUNG ELECTRONICS CO., LTD.

divisional, renewal or substitute thereof, and as to letters patent any reissue, reexamination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Inventor(s)/Assignor(s) Signature(s) for Section II.

LEGAL NAME OF FIRST	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	SHIN	Hyeonjin	
SIGNATURE	<u>.</u>		2017.11.13

SEC Ref N	o. <u>RS-201608-008-1-US0</u>	Attorney Ref No.	2557SI-002668-US	
COMBINE	D DECLARATION (37 CFR 1.63) FOR L	TILITY PATENT APPLICATIO	NAND ASSIGNMENT FORM	
	p	age 3 of 6	PATENT	
al@Blog1136050ewire.tab(Fl&@)*	*N27286.00171027082640	RE	EL: 044128 FRAME:	0813

Section III. Assignment

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, collectively referred to in Section II as Assignors in this section, hereby sell(s) and assign(s) to

Research & Business Foundation SUNGKYUNKWAN UNIVERSITY

having an address at **2066, Seobu-ro, Jangan-gu, Suwon-si, Gyeonggi-do, Republic of Korea** (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section I of this document.

Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

SEC Ref No	RS-201608-008-1-US0	Attorney Ref No	2557SI-002668-US	
COMBINED DI	ECLARATION (37 CFR 1.63) FOR UTILI	TY PATENT APPLICATIO	N AND ASSIGNMENT FORM	
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		REE	L: 044128 FRAME: 0	814

SAMSUNG ELECTRONICS CO., LTD.

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Inventor(s)/Assignor(s) Signature(s) for Section III.

LEGAL NAME OF SECOND	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	KIM	Sangwoo	
	1 2	J	
SIGNATURE _	\mathcal{N}^{μ}	DATE	2017.11.13

Family Name	First Given Name	Second Given Name
KIM	Seongsu	
	.1	1
LA	DATE	2017.11.13
		KIM Seongsu

SEC Ref No.	RS-201608-008-1-US0	Attorney Ref No.	2557SI-002668-US	
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	Page	:5of6	PATENT	
		REI	EL: 044128 FRAME: 081	5

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	KIM	Jihye	
			······································
SIGNATURE	7621501	DATE	2017.11.13

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SEC Ref No. RS-201608-008-1-US0 Attorney Ref No. 25578I-002668-US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

Page 6 of 6

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