

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5680250

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Bohyun NAM	04/04/2017
Namhee KIM	04/17/2017
Jinju KIM	04/04/2017
Hyeonjeong AN	04/04/2017
Jungbae HWANG	05/06/2017
RECEIVING PARTY DATA	
Name:	LG Electronics Inc.
Street Address:	128, Yeoui-daero, Yeongdeungpo-gu Seoul 07336
Internal Address:	Republic of Korea
City:	Seoul
State/Country:	Republic of Korea
Postal Code:	07336
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16050765
CORRESPONDENCE DATA	
Fax Number:	(877)769-7945
<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:	(202) 626-7765
Email:	andersen@fr.com, apsi@fr.com
Correspondent Name:	HYUN JIN IN
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	20519-0303003
NAME OF SUBMITTER:	MELISSA ANDERSEN
SIGNATURE:	/Melissa Andersen/
DATE SIGNED:	08/21/2019

Total Attachments: 4

source=Executed_Assignment#page1.tif

source=Executed_Assignment#page2.tif

source=Executed_Assignment#page3.tif

source=Executed_Assignment#page4.tif

ASSIGNMENT

(1-8) <i>Insert Name(s) of Inventor(s)</i>	(1) Bohyun NAM (2) Namhee KIM (3) Jinju KIM (4) Hyeonjeong AN	(5) Jungbae HWANG (6) (7) (8)
--	--	--

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) <i>Insert name of Assignee</i>	(9) LG Electronics Inc.
(10) <i>Insert state of Incorporation of Assignee</i>	(10) Republic of Korea
(11) <i>Insert address of Assignee</i>	(11) 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea (hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as
(12) <i>Insert identification of Invention, such as Title, Case Number or Foreign Application Number</i>	(12) CLEANER for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

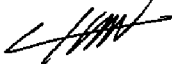
2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

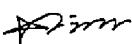
4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.


5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

The undersigned hereby appoints **the Attorneys associated with Customer No. 035884** the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: April 4, 2017 Signature of Inventor (1) 

Date: _____ Signature of Inventor (2) _____

Date: April 4, 2017 Signature of Inventor (3) 

Date: April 4, 2017 Signature of Inventor (4) 

Date: _____ Signature of Inventor (5) _____

Date: _____ Signature of Inventor (1) _____
Date: 6.17.17 Signature of Inventor (2) [Signature]
Date: _____ Signature of Inventor (3) _____
Date: _____ Signature of Inventor (4) _____
Date: _____ Signature of Inventor (5) _____

Date: _____ Signature of Inventor (1) _____
Date: _____ Signature of Inventor (2) _____
Date: _____ Signature of Inventor (3) _____
Date: _____ Signature of Inventor (4) _____
Date: 2019.05.06 Signature of Inventor (5) [Signature]