506178524 07/29/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GYUHO EOH	05/06/2020
JUNGSIK KIM	04/24/2020
HYOUNGROCK KIM	05/08/2020
DONG KI NOH	05/06/2020
JOONGTAE PARK	05/06/2020

RECEIVING PARTY DATA

Name:	LG ELECTRONICS INC.
Street Address:	128, YEOUI-DAERO, YEONGDEUNGPO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	07336

PROPERTY NUMBERS Total: 1

Property Type	Number			
Application Number:	16964982			

CORRESPONDENCE DATA

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Correspondent Name: LEE, HONG, DEGERMAN, KANG & WAIMEY

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NAME OF SUBMITTER: NORMAN T. LEE SIGNATURE: /Norman T. Lee/ 07/29/2020	ATTORNEY DOCKET NUMBER:	3130-3333
	NAME OF SUBMITTER:	NORMAN T. LEE
DATE SIGNED: 07/29/2020	SIGNATURE:	/Norman T. Lee/
DATE SIGNED.	DATE SIGNED:	07/29/2020

Total Attachments: 5

PATENT REEL: 053347 FRAME: 0536

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PATENT REEL: 053347 FRAME: 0537

Attorney Docket No. 3130-3333

ASSIGNMENT

(1-8)	Insert Name(s) of	(1)	Gyuho EOH	(5) Joonglae PAF	RΚ
	Inventor(s)	(2)	Jungsik KIM	(6)	
		(3)	Hyoungrock KIM	(7)	
		(4)	Dong Ki NOH	(8)	
			valuable consideration	sum of one dollar (\$1.00) and s paid to each of the undersign to assign, and hereby does as:	red, the
(9)	Insert name of Assignee	(9)	LG Electronics Inc.		
(10)	Insert state of Incorporation of Assignee	(10)	Republic of Korea		
(11)	Insert address of Assignee	(11)	128, Yeoui-daero, Yeo	ngdeungpo-gu, Secul, 07336,	Republic of Korea
			einafter designated as t rest in the invention kno	he Assignee) the entire worldv wn as	vide right, title and
(12)	Insert identification of	(12)	METHOD OF UPDAT	NG MAP IN FUSION SLAM A	ND ROBOT
	Invention, such as Title, Case Number or Foreign Application Number		IMPLEMENTING SAN	E	
			in the United States of	ned has (have) executed an a America and all patent applica ig 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:	2020/05/06	Signature of Inventor (1)
Date:		Signature of Inventor (2)

REEL: 053347 FRAME: 0538

Attorney Docket No. 3130-3333

ASSIGNMENT

			ASSIGNMENT		
(1-8)	Insert Name(s) of Inventor(s)		iyuho EOH ungsik KIM		5) Joongtae PARK
			-		(6) 20
			lyoungrock KIM		<u>7)</u>
		· ,	valuable considerations p	um of one o	8) dollar (\$1.00) and other good and h of the undersigned, the d hereby does assign, transfer and
(9)	Insert name of Assignee	(9)	LG Electronics Inc.		
(10)	Insert state of Incorporation of Assignee	(10)	Republic of Korea		
(11)	Insert address of Assignee	(herei		Assignee	gu, Secul, 07336, Republic of Korea the entire worldwide right, title and
(12)	Insert identification of Invention, such as Title, Case Number or Foreign Application Number	······································	MPLEMENTING SAME for which the undersigned	d has (hav merica and	FUSION SLAM AND ROBOT e) executed an application for patent I all patent applications in foreign based thereon.
inventi	The undersigned agn l, reissue, divisional and contin on and also to execute separat sem necessary or expedient.	ruing U	o execute all papers nece nited States and foreign i gnments in connection wi	application	s for the above-identified
	rence which may be declared or rate with the Assignee in every	concern		ntinuation	or division thereof and to
which Protec	The undersigned agrically agrically agrically agrically and agrically a	on with	cexecute all papers and claims or provisions of the greements.		

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.

obtain a grant of a valid United States patent to the Assignee.

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:		Signature of Inventor (1)
Date:	An+24,200	Signature of Inventor (2)

The undersigned agree(s) to perform all affirmative acts which may be necessary to

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REEL: 053347 FRAME: 0539

Date: 2020, 45, 68	Signature of Inventor (3)
Date:	Signature of Inventor (4)
Date:	Signature of Inventor (5)

Date:	Signature of Inventor (3)		
Date: May 6, 2020	Signature of Inventor (4)	፟ዿጇ፝ _፝ ፞፞፞፞	1 2
Date	Signature of Inventor (5)		

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Date:	Signature of Inventor (3)
Date:	Signature of Inventor (4)
Date: <u>20.5.6</u>	Signature of Inventor (5)

PATENT REEL: 053347 FRAME: 0542

RECORDED: 07/29/2020