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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HUA XIE	11/14/2018
JEAN-LUC FRANCOIS MARIE ROBERT	11/14/2018
MAN NGUYEN	11/14/2018
SHENG-WEN HUANG	11/14/2018
VIJAY THAKUR SHAMDASANI	03/06/2019

RECEIVING PARTY DATA

Name:	KONINKLIJKE PHILIPS N.V.
Street Address:	HIGH TECH CAMPUS 5
City:	EINDHOVEN
State/Country:	NETHERLANDS
Postal Code:	5656AE

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16331185

CORRESPONDENCE DATA

Fax Number:

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NAME OF SUBMITTER:	MARIANNE FOX
SIGNATURE:	/marianne fox/
DATE SIGNED:	03/07/2019

Total Attachments: 4

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For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s) or Inventor, hereby sell, and assign, and transfer the entire and exclusive right, title, and interest in the following to Koninklijke Philips N.V., having a place of business at High Tech Campus 5, 5656 AE, Eindhoven, the Netherlands, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee") my/our invention for which an application:

	is executed concurrently herewith
	was filed on ***, having a United States Application No. ***
\boxtimes	was filed on 2017-Sep-07, having an International Application No. PCT/EP2017/072493,

and all rights in and to said application, and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, non-provisionals divisions, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications.

I/We authorize and request that the Patent Office officials in the United States and in any and all foreign countries to issue any and all Letters Patent when granted, solely to the Assignee(s), for its sole use, and that of its successors, assigns, and legal representatives.

I/We will provide my/our cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignee, I/we agree to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecution actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee.

I/We certify that I/we have the full right to convey the above rights.

As a below-named Inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original Inventor or an original joint Inventor of a claimed invention in the application.

I 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.

Date:	11/14/248	Signature:		Assignor/Inventor
Date:		Signature:	Hua XIE	Assignor/Inventor
Date:	W14/2018	Signature:	Sheng-Wen HUANG	Assignor/Inventor
Date:	11/14/2018	Signature:	Jean-Luc Franchis-Marie ROBERT	Assignor/Inventor
Date:		Signature:	Man NGUYEN Viiav Thakur SHAMDASANI	Assignor/Inventor

hereby sell, and assign, and tran having a place of business at Hig	isfer the entire gh Tech Camr	I/we acknowledge receipt, I/we as a below-named and exclusive right, title, and interest in the following some 5, 5656 AE, Eindhoven, the Netherlands, its sunctively "the Assignee") my/our invention for which a	ng to Koninklijke Philips N.V., ccessors, assigns, and legal
is executed concurrently here	ewith		
was filed on ***, having a Un	ited States Ap	pplication No. ***	
was filed on 2017-Sep-07, h	aving an Inter	national Application No. PCT/EP2017/072493,	
therewith, based thereon, or claid divisions, continuations, continuations, continuations.	ming priority to ations-in-part,	l other United States, foreign and international pate herefrom including, but not limited to, any and all p re-examinations, reissues, and extensions thereof , and interest in and to any and all patents granted	rovisionals, non-provisionals, and the right to claim priority
		fice officials in the United States and in any and all the Assignee(s), for its sole use, and that of its suc	
Upon request at the expense of proceedings including patent pro	the Assignee, osecution action	e the Assignee to enjoy the foregoing right, title, and I we agree to execute all papers, take all rightful or one and infringement actions, and do all other suching and maintaining patents on the foregoing invent	aths, testify in all legal acts which may be
I/We certify that I/we have the fu	all right to conv	vey the above rights.	
The state of the s		that the above-identified application was made or a al joint inventor of a claimed invention in the applic	• •
I hereby acknowledge that any timprisonment of not more than I		ntement made in this declaration is punishable under or both.	er 18 U.S.C. 1001 by fine or
Date:	Signature:		Assignor/inventor
Date: 11/14/2018	Signature:	Hua XIE	
		Sheng-Wen HUANG	"
Date:	Signature:	Jean-Luc François-Marie ROBERT	Assignor/Inventor
Date:	Signature:		Assignor/inventor
Date:	Signature:	Man NGUYEN	Assignor/Inventor
NY W N N V	res San successor con	Vijay Thakur SHAMDASANI	

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s) or Inventor,

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I hereby acknowledge that any imprisonment of not more than t		tement made in this declaration is punishable under 1 or both.	8 U.S.C. 1001 by fine or
Date:	Signature:	Hua XIE	Assignor/Inventor
Date:	Signature:	Sheng-Wen HUANG	Assignor/Inventor
Date:	Signature:	Jean-Luc François-Marie ROBERT	Assignor/Inventor
Date:	Signature:		Assignor/inventor
Date: MAR 6th 2019	Signature:	Man NGUYEN Vijay Thakur SimmDASANI	Assignor/Inventor

PATENT REEL: 048526 FRAME: 0903

RECORDED: 03/07/2019