PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5947636

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHOUGANG WANG	02/17/2017
BALASUNDAR IYYAVU RAJU	02/04/2020
SHIWEI ZHOU	02/17/2017
JINGPING XU	02/20/2017

RECEIVING PARTY DATA

Name:	KONINKLIJKE PHILIPS N.V.	
Street Address:	HIGH TECH CAMPUS 52	
City:	EINDHOVEN	
State/Country:	NETHERLANDS	
Postal Code:	5656 AG	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15503812

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 914-495-9516

Email: barbara.kinney@Philips.com

Correspondent Name: PHILIPS INTELLECTUAL PROPERTY & STANDARD

Address Line 1: 465 COLUMBUS AVENUE

Address Line 2: SUITE 340

Address Line 4: VALHALLA, NEW YORK 10595

ATTORNEY DOCKET NUMBER:	2014P00563WOUS
NAME OF SUBMITTER:	BARBARA KINNEY
SIGNATURE:	/Barbara Kinney/
DATE SIGNED:	02/05/2020

Total Attachments: 4

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PATENT REEL: 051727 FRAME: 0671

thereto in the Assignee.

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), hereby sel and assign, and transfer the entire and exclusive right, title, and interest in the following to Koninklijke Philips N.V., hav 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 executed by me/us on			
	☐ was filed on, having a Serial No			
	was filed on. 12 Aug 2015, having an International Application No. PCT/IB2015/056141,			
	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			

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

12/17/2017	(sign name here)		
Date	(print name here)	Shougang WANG	, Assignor
Date	(print name here)	Balasundar Iyyavu RAJU	, Assignor
Date	(print name here)	Shiwei ZHOU	, Assignor
Date	(print name here)	Jingping XU	, Assignor

Page 1 of 1

U.S.A. Sole/Joint ASSIGNMENT Docket No. 2014P00563WOUS

		we acknowledge receipt, I we as a bel	
		right, title, and interest in the followin	
		5 AE, Eindhoven, the Netherlands, its sively "the Assignee") my/our inventio	
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is executed concurre	ntly herewith		
was executed by me			
was filed on		aving a Serial No	
was filed on 12 Aug	2015, having an Intern	ational Application No. PCT/182015/0	956141,
and all rights in and to s	aid application, and all c	other United States, foreign and interna	tional patent applications associated
therewith, based thereor	, or claiming priority th	erefrom including, but not limited to, a	ny and all provisionals, non-
			and extensions thereof, and the right to
claim priority thereto, as	nd the entire and exclusi	ve right, title, and interest in and to any	and all patents granted on these
applications.			
I We authorize and requ	est that the Patent Office	e officials in the United States and in a	ny and all foreign countries to issue
		o the Assignee(s), for its sole use, and	
legal representatives.			
I We will provide my/or	ir cooperation to enable	the Assignee to enjoy the foregoing rig	tht, fille, and interest to the fullest
		ince, I'we agree to execute all papers, i	
		ctions and infringement actions, and d	
necessary, desirable, or	convenient for securing	and maintaining patents on the foregoi	ng invention or for perfecting title
thereto in the Assignee.			
I/We certify that I/we ha	we the full right to conv	ey the above rights.	
	(sign name here)		
Date	(print name here)	Shausang WA G	, Assignor
11/2 4,2020		- WIN	
Date	(print name here)	Billi sundar lyyavu RA 3U	Assignor
Date	(print name here)	Shiwei ZHO	. Assignor
Date	7.00	N	
evace:	(print name here)	Jingping XU	, Assignor

Page 1 of 1

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

and assign, and tr	ansfer the entire and exclusive ri	ght, title, and interest in the following	to Koninklijke Philips N.V., having
a place of busines	is at High Tech Campus 5,5656 /	VE, Eindhoven, the Netherlands, its su	ccessors, assigns, and legal
representatives, ii	ncluding any nomin ee s (collectiv	ely "the Assignee") my/our invention	for which an application:
is executed co	ncurrently herewith		
was executed	by me'us on	1677163118311631163116311631163	
		ing a Scrial No	************
		onal Application No. PCT/IB2015/05	
and all rights in a	nd to said application, and all oth	er United States, foreign and internation	onal patent applications associated
		from including, but not limited to, any	
		s-in-part, re-examinations, reissues, an	
		right, title, and interest in and to any a	
any and all Letter legal representation	s Patent when granted, solely to t ves.	fficials in the United States and in any he Assignee(s), for its sole use, and the e Assignee to enjoy the foregoing righ	at of its successors, assigns, and
		e, I'we agree to execute all papers, tal	
		ons and infringement actions, and do	
		d maintaining patents on the foregoing	
thereto in the Ass			announce of the personning time
I/We certify that I	we have the full right to convey	the above rights.	
	(sign name here)		
Date	(print name here)	Shougang WANG	, Assignor
Date	(print name here)	Balasundar Iyyavu RAJU	, Assignor
02/17/201	7 - Shiwei Zhou -	John Kor	~
Date	(print name here)	Silvei ZHOU	, Assignor
Date	(print name here)	Jingping XU	, Assignor

Page 1 of 1

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U.S.A. Sole/Joint

ASSIGNMENT

		we acknowledge receipt, I/we as a below	***************************************
		ight, title, and interest in the following t AE, Eindhoven, the Netherlands, its suc	
		vely "the Assignee") my/our invention f	
is executed concu	rrently herewith		
was executed by a	ne/us on		
was filed on	, ha	ving a Serial No	***********
was filed on. 12 A	lug 2015, having an Internat	ional Application No. PCT/IB2015/050	5141,
and all rights in and t	o said application, and all ot	her United States, foreign and internatio	nal patent applications associated
therewith, based there	eon, or claiming priority the	efrom including, but not limited to, any	and all provisionals, non-
provisionals divisions	s, continuations, continuation	ns-in-part, re-examinations, reissues, an	d extensions thereof, and the right to
claim priority thereto applications.	, and the entire and exclusiv	e right, title, and interest in and to any a	nd all patents granted on these
		officials in the United States and in any the Assignee(s), for its sole use, and the	
extent. Upon request legal proceedings inc	at the expense of the Assign luding patent prosecution ac or convenient for securing a	he Assignee to enjoy the foregoing right nee, I/we agree to execute all papers, tak tions and infringement actions, and do a nd maintaining patents on the foregoing	e all rightful oaths, testify in all Il other such acts which may be
I/We certify that I/we	have the full right to conve	y the above rights.	
•	(sign name here)		
Date	(print name here)	Shougang WANG	, Assignor
Date	(print name here)	Balasundar Iyyavu RAJU	, Assignor
Date	(print name here)	Shiwei ZHOU	, Assignor
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Page 1 of 1

Jingping XU

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, Assignor

RECORDED: 02/05/2020

(print name here)