PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

ELIDMICCION TYPE: NIEW ACCIONMENT

EPAS ID: PAT4323549

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JINGWEI TAN	09/07/2015
JUN SHI	09/07/2015
YANYAN WANG	09/07/2015
DECLAN PATRICK KELLY	03/15/2017

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15512112

CORRESPONDENCE DATA

Fax Number: (914)495-9540

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: debbie.henn@philips.com

Correspondent Name: PHILIPS INTELLECTUAL PROPERTY & STANDARD

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Address Line 2: SUITE 340

Address Line 4: VALHALLA, NEW YORK 10595

ATTORNEY DOCKET NUMBER:	2014P00885WOUS01
NAME OF SUBMITTER:	KATHLEEN A. ASHER
SIGNATURE:	/KATHLEEN A. ASHER/
DATE SIGNED:	03/17/2017

Total Attachments: 4

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PATENT 504276867 REEL: 041605 FRAME: 0701

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PATENT REEL: 041605 FRAME: 0702 U.S.A. Sole/Joint

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), 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 executed by me/us on	
was filed on. , having a Serial No	
was filed on. 06 Sep 2015, having an International Application No. PCT/EP2015/070310,	

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 Assignce(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.

7. Sep. 2015	(sign name here)	撑谷牧	
Date	(print name here)	Jingwei TAN	, Assignor
Date	(print name here)	Jun SHI	, Assignor
Date	(print name here)	Yanyan WANG	, Assignor
Date	(print name here)	Jun ZHOU	, Assignor
Date	(print name here)	Declan Patrick KELLY	. Assignor

Date

and assign, and trans	fer the entire and exclusive r High Tech Campus 5,5656	* * *	T 1
is executed concu	*		
-	me/us on	ving a Serial No	
		onal Application No. PCT/EP201	
therewith, based ther provisionals division	eon, or claiming priority then s, continuations, continuation	refrom including, but not limited to ns-in-part, re-examinations, reissue	rnational patent applications associated o, any and all provisionals, non- es, and extensions thereof, and the right to any and all patents granted on these
	atent when granted, solely to		n any and all foreign countries to issue nd that of its successors, assigns, and
extent. Upon reques legal proceedings inc	t at the expense of the Assign cluding patent prosecution ac or convenient for securing a	nee, I/we agree to execute all paper tions and infringement actions, an	right, title, and interest to the fullest rs, take all rightful oaths, testify in all do all other such acts which may be going invention or for perfecting title
I/We certify that I/w	e have the full right to conve	y the above rights.	
	(sign name here)		
Date	(print name here)	Jingwei TAN	, Assignor
2015.09.07	Z U.S.	72 UZ.	
Date	(print name here)	Ĵun SHI 🐣	, Assignor
Date	(print name here)	Yanyan WANG	, Assignor
Date	(print name here)	Jun ZHOU	, Assignor

Declan Patrick KELLY

(print name here)

, Assignor

and assign, and tra a place of business	nsfer the entire and exclusive r at High Tech Campus 5,5656	we acknowledge receipt, I/we as a belight, title, and interest in the following AE, Eindhoven, the Netherlands, its swely "the Assignee") my/our invention	g to Koninklijke Philips N.V., having successors, assigns, and legal
was filed on	y me/us on, ha	ving a Serial Noonal Application No. PCT/EP2015/0	
therewith, based the provisionals divisionals	ereon, or claiming priority ther	her United States, foreign and internate refrom including, but not limited to, and ins-in-part, re-examinations, reissues, are right, title, and interest in and to any	ny and all provisionals, non- and extensions thereof, and the right to
	Patent when granted, solely to	officials in the United States and in a the Assignee(s), for its sole use, and	
extent. Upon requi	est at the expense of the Assign neluding patent prosecution ac e, or convenient for securing a	ne Assignee to enjoy the foregoing riguee, I/we agree to execute all papers, at tions and infringement actions, and do maintaining patents on the foregoing	take all rightful oaths, testify in all oath all other such acts which may be
I/We certify that I/	we have the full right to conve	y the above rights.	
Date	(sign name here) (print name here)	Jingwei TAN	, Assignor
Date 2015/09/0-		Jun SHI	, Assignor
Date	(print name here)	Yanyan WANG	, Assignor
Date	(print name here)	Jun ZHOU	, Assignor
Date	(print name here)	Declan Patrick KELLY	, 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,

- ·	_	tht, title, and interest in the following to	
•	•	E, Eindhoven, the Netherlands, its suc	
representatives, including	any nominees (collective	ely "the Assignee") my/our invention for	or which an application:
is executed concurren	tly herewith		•
	s on		
		ing a Serial No	
		nal Application No. PCT/EP2015/070	
and all rights in and to sa	id application, and all oth	er United States, foreign and internatio	nal patent applications associated
•	• •	from including, but not limited to, any	
provisionals divisions, co	ntinuations, continuations	s-in-part, re-examinations, reissues, and	d extensions thereof, and the right to
claim priority thereto, and applications.	d the entire and exclusive	right, title, and interest in and to any a	nd all patents granted on these
any and all Letters Patent legal representatives.	when granted, solely to t	fficials in the United States and in any he Assignee(s), for its sole use, and that e Assignee to enjoy the foregoing right	at of its successors, assigns, and
extent. Upon request at t	he expense of the Assigne	e, I/we agree to execute all papers, tak	e all rightful oaths, testify in all
legal proceedings including	ng patent prosecution acti	ons and infringement actions, and do a	Il other such acts which may be
•	onvenient for securing and	d maintaining patents on the foregoing	invention or for perfecting title
thereto in the Assignee.			
I/We certify that I/we hav	e the full right to convey	the above rights.	
	(sign name here)		
Date	(print name here)	Jingwei TAN	, Assignor
Date	(print name here)	Jun SHI	, Assignor
Date	(print name nere)	oun SIII	, Assignor
Date	(print name here)	Yanyan WANG	, Assignor
Date 15 March 2017	(print name here)	Jun ZHOU	, Assignor
Date	(print name here)	Declan Patrick KELLY	, Assignor

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PATENT REEL: 041605 FRAME: 0706