PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5305759

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
GUANGMING SU	01/26/2018
DONGHAI YU	05/09/2018
WEN SUN	07/05/2017
YUN CHEN	01/30/2018
XIAOYUN KUI	01/26/2018
WEIHUA LU	01/26/2018

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:	16314784	

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: 914-495-9521

debbie.henn@Philips.com Email:

PHILIPS INTELLECTUAL PROPERTY & STANDARD **Correspondent Name:**

Address Line 1: 465 COLUMBUS AVENUE

Address Line 4: VALHALLA, UNITED STATES 10595

ATTORNEY DOCKET NUMBER:	2016P00576WOUS01
NAME OF SUBMITTER:	KATHLEEN A. ASHER
SIGNATURE:	/KATHLEEN A. ASHER/
DATE SIGNED:	01/02/2019

Total Attachments: 6

PATENT REEL: 047882 FRAME: 0843

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For good and valual	ole consideration, of which I/v	we acknowledge receipt, I/we as a b	elow-named Assignor(s), hereby sell,
and assign, and tran	sfer the entire and exclusive r	ight, title, and interest in the follow	ing to Koninklijke Philips N.V., having
a place of business a	nt High Tech Campus 5,5656	AE, Eindhoven, the Netherlands, its	s successors, assigns, and legal
representatives, incl	uding any nominees (collective	vely "the Assignee") my/our inventi	on for which an application:
is executed conc	urrently herewith		
_	me/us on	, 	
		ving a Serial No	
		ional Application No. PCT/EP2017	
and all rights in and	to said application, and all ot	her United States, foreign and inter	national patent applications associated
		refrom including, but not limited to,	
	* * * *	<u> </u>	, and extensions thereof, and the right to
		e right, title, and interest in and to a	-
I/We authorize and	request that the Patent Office	officials in the United States and in	any and all foreign countries to issue
		the Assignee(s), for its sole use, an	- •
legal representatives			
I/We will provide m	y/our cooperation to enable t	he Assignee to enjoy the foregoing	right, title, and interest to the fullest
			, take all rightful oaths, testify in all
			do all other such acts which may be
		_	oing invention or for perfecting title
thereto in the Assign		<u> </u>	
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I/We certify that I/w	e have the full right to conve	y the above rights.	
•			
2018/1/26	(sign name here)	Guangming Su	
Date Date	(print name here)	Guangming SU	, Assignor
	(**************************************		, ribbightor
Date	(print name here)	Donghai YU	, Assignor
Date	(print name here)	Wen SUN	, Assignor
Date	(print name here)	Yun CHEN	, Assignor
Date	(print name here)	Xiaoyun KUI	, Assignor
<u> </u>			
Date	(print name here)	Weihua LU	Assignor

i

Date

and assign, and trar a place of business	nsfer the entire and exclusive ri at High Tech Campus 5,5656 A	ght, title, and interest in the follo	below-named Assignor(s), hereby sell, wing to Koninklijke Philips N.V., having its successors, assigns, and legal ntion for which an application:
was filed on	/ me/us on, hav	ving a Serial Noonal Application No. PCT/EP20	
therewith, based the provisionals division	ereon, or claiming priority ther	efrom including, but not limited to is-in-part, re-examinations, reissu	ernational patent applications associated to, any and all provisionals, non- nes, and extensions thereof, and the right to any and all patents granted on these
	Patent when granted, solely to		in any and all foreign countries to issue and that of its successors, assigns, and
extent. Upon reque legal proceedings in	est at the expense of the Assign including patent prosecution act e, or convenient for securing ar	ee, I/we agree to execute all paper ions and infringement actions, as	g right, title, and interest to the fullest ers, take all rightful oaths, testify in all and do all other such acts which may be egoing invention or for perfecting title
I/We certify that I/v	we have the full right to convey	the above rights.	
	(sign name here)		
Date	(print name here)	Guangming SU	, Assignor
May 9, 2018	DONGHAI YU	yepor	
Datë	(print name here)	Donghai YU	, Assignor
Date	(print name here)	Wen SUN	, Assignor
Date	(print name here)	Yun CHEN	, Assignor
Date	(print name here)	Xiaoyun KUI	, Assignor

Page 1 of 1

Weihua LU

(print name here)

PATENT REEL: 047882 FRAME: 0846

, Assignor

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_		=	wing to Koninklijke Philips N.V., having
•	• •	AE, Eindhoven, the Netherlands,	, , , ,
representatives, inci	uding any nominees (collective	vely "the Assignee") my/our inver	ntion for which an application:
is executed conc	umponthy honosyith		
	me/us on		
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		ving a Serial No.	
was filed on. 28	Jun 2017, naving an internat	ional Application No. PCT/EP20	1//065941,
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	o, and the entire and exclusiv	e right, title, and interest in and to	any and all patents granted on these
applications.			
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-		the Assignee(s), for its sole use,	and that of its successors, assigns, and
legal representatives	S.		
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•	•		g right, title, and interest to the fullest
		= ,	ers, take all rightful oaths, testify in all
	-	-	nd do all other such acts which may be
<u>-</u>	-	nd maintaining patents on the for	egoing invention or for perfecting title
thereto in the Assig	nee.		
I/We certify that I/v	ve have the full right to conve	y the above rights.	
	(sign name here)		
Date	(print name here)	Guangming SU	, Assignor
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Date	(print name here)	Donghai YU	, Assignor
2017.7.5		Wer Sur	
Date	(print name here)	Wen SUN	, Assignor
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Date	(print name here)	Yun CHEN	, Assignor
		_	
Date	(print name here)	Xiaoyun KUI	, Assignor

Weihua LU

(print name here)

Date

PATENT REEL: 047882 FRAME: 0847

, Assignor

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
冈	was filed on. 28 Jun 2017, having an International Application No. PCT/EP2017/065941,

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.

	(sign name here)		
Date	(print name here)	Guangming SU	, Assignor
Date	(print name here)	Donghai YU	, Assignor
Date	(print name here)	Wen SUN YUN MTN.	, Assignor
Date	(print name here)	Yun CHEN	, Assignor
Date	(print name here)	Xiaoyun KUI	, Assignor
Date	(print name here)	Weihua LU	, Assignor

Page 1 of 1

and assign, and trans a place of business a	sfer the entire and exclusive ri	* ·	
was filed on	me/us on, hav	ving a Serial Noonal Application No. PCT/EP201	
therewith, based the provisionals divisionals divisionals divisionals claim priority therest applications. LiVe authorize and	reon, or claiming priority ther us, continuations, continuation o, and the entire and exclusive request that the Patent Office	efrom including, but not limited to as-in-part, re-examinations, reissu- e right, title, and interest in and to officials in the United States and i	es, and extensions thereof, and the right to any and all patents granted on these n any and all foreign countries to issue
any and all Letters I legal representatives		the Assignee(s), for its sole use, a	and that of its successors, assigns, and
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I/We certify that I/v	ve have the full right to conve	y the above rights.	
Date	(sign name here) (print name here)	Guangming SU	, Assignor
Date	(print hame here)	Guangining 50	, ricolghor
Date	(print name here)	Donghai YU	, Assignor
Date	(print name here)	Wen SUN	, Assignor
Date	(print name here)	Yun CHEN	, Assignor
Date	(print name here)	Xiaoyun KUI	, Assignor

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Weihua LU

(print name here)

Date

PATENT REEL: 047882 FRAME: 0849

, Assignor

and assign, and tra a place of business	nsfer the entire and exclusive r at High Tech Campus 5,5656	· ·	. • . •
is executed con	currently herewith y me/us on		
	•	ving a Serial No	
		ional Application No. PCT/EP201	
and all rights in an	d to said application, and all ot	her United States, foreign and inter	national patent applications associated
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_			s, and extensions thereof, and the right to any and all patents granted on these
	Patent when granted, solely to		any and all foreign countries to issue and that of its successors, assigns, and
extent. Upon reque legal proceedings i	est at the expense of the Assign neluding patent prosecution ac e, or convenient for securing a	nee, I/we agree to execute all papers tions and infringement actions, and	right, title, and interest to the fullest s, take all rightful oaths, testify in all do all other such acts which may be joing invention or for perfecting title
I/We certify that I/	we have the full right to conve	y the above rights.	
	(sign name here)		
Date	(print name here)	Guangming SU	, Assignor
Date	(print name here)	Donghai YU	, Assignor
Date	(print name here)	Wen SUN	, Assignor
Date	(print name here)	Yun CHEN	, Assignor
Date	(print name here)	Xiaoyun KUI	, Assignor
2018.1.26	(mulint manner trans)	Weihua Lu	A
Date	(print name here)	Weihua LU	, Assignor