506499644 02/11/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6546419

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHOUGANG WANG	10/17/2017
BALASUNDAR IYYAVU RAJU	06/06/2019
JINGPING XU	10/18/2017
SHIWEI ZHOU	05/23/2019
ANTHONY M. GADES	05/23/2019
MCKEE DUNN POLAND	10/13/2017

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:	16086729	

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:	2016P00198WOUS01
NAME OF SUBMITTER:	BARBARA KINNEY
SIGNATURE:	/Barbara Kinney/
DATE SIGNED:	02/11/2021

PATENT 506499644 REEL: 055224 FRAME: 0326

Total Attachments: 6source=2016P00198WOUS_Assignment#page1.tif source=2016P00198WOUS_Assignment#page2.tif source=2016P00198WOUS_Assignment#page3.tif source=2016P00198WOUS_Assignment#page4.tif

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PATENT REEL: 055224 FRAME: 0327

Date

Date

and assign, and transfer a place of business at Hi	the entire and exclusive righ gh Tech Campus 5,5656 AE	acknowledge receipt, I/we as a below-nan nt, title, and interest in the following to Ko E, Eindhoven, the Netherlands, its successory "the Assignee") my/our invention for wh	ninklijke Philips N.V., having ors, assigns, and legal
was filed on	us on, havir	ng a Serial Nonal Application No. PCT/EP2017/05709 6	
therewith, based thereon provisionals divisions, c	, or claiming priority theref	r United States, foreign and international prom including, but not limited to, any and in-part, re-examinations, reissues, and extight, title, and interest in and to any and al	all provisionals, non- ensions thereof, and the right to
_		ficials in the United States and in any and e Assignee(s), for its sole use, and that of	-
extent. Upon request at legal proceedings includ	the expense of the Assignee ing patent prosecution actio	Assignee to enjoy the foregoing right, title e, I/we agree to execute all papers, take all ens and infringement actions, and do all oth maintaining patents on the foregoing investigation.	rightful oaths, testify in all ner such acts which may be
I/We certify that I/we had 10/13/2017	we the full right to convey the	he above rights.	
Oct. 17, 2017	SHOUGANG WANG	3	
Date	(print name here)	Shougang WANG	, Assignor
Date	(print name here)	Balasundar Iyyavu RAJU	, Assignor
Date	(print name here)	JingPing XU	, Assignor
Date	(print name here)	Shiwei ZHOU	, Assignor

Page 1 of 1

Anthony M GADES

Mckee Dunn POLAND

(print name here)

(print name here)

, Assignor

, Assignor

and assign, and transfer the	e entire and exclusive rig Tech Campus 5,5656 A	e acknowledge receipt, I/we as a below- ght, title, and interest in the following to LE, Eindhoven, the Netherlands, its succely "the Assignee") my/our invention fo	Koninklijke Philips N.V., having essors, assigns, and legal
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therewith, based thereon, oppositionals divisions, cor	or claiming priority there ntinuations, continuation	er United States, foreign and internation efrom including, but not limited to, any a s-in-part, re-examinations, reissues, and right, title, and interest in and to any an	and all provisionals, non- extensions thereof, and the right to
		officials in the United States and in any a	
extent. Upon request at the legal proceedings including	ne expense of the Assign ng patent prosecution act	e Assignee to enjoy the foregoing right, ee, I/we agree to execute all papers, take ions and infringement actions, and do all 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 hav	e the full right to convey	the above rights.	
	(sign name here)		
Date 6 0 - 19	(print name here)	Shougang WANG	, Assignor
Date	(print name here)	Balasundar Iyyavu RAJU	, Assignor
Date	(print name here)	JingPing XU	, Assignor
Date	(print name here)	Shiwei ZHOU	, Assignor
Date	(print name here)	Anthony M GADES	, Assignor

Page 1 of 1

(print name here)

Date

Mckee Dunn POLAND

PATENT REEL: 055224 FRAME: 0329

, Assignor

For good and valuable of	consideration, of which I/we	e acknowledge receipt, I/we as a below	-named Assignor(s), hereby sell,
and assign, and transfer	the entire and exclusive rig	tht, title, and interest in the following to	o Koninklijke Philips N.V., having
a place of business at H	igh Tech Campus 5,5656 A	E, Eindhoven, the Netherlands, its suc	cessors, assigns, and legal
representatives, including	ng any nominees (collective	ly "the Assignee") my/our invention f	or which an application:
	•		
is executed concurre	•		
· · · · · · · · · · · · · · · · · · ·	/us on		
		ing a Serial No	
was filed on. 24 Ma	r 2017, having an Internation	onal Application No. PCT/EP2017/05	7096,
and all rights in and to s	said application, and all other	er United States, foreign and internatio	onal patent applications associated
-	• •	from including, but not limited to, any	
	=	in-part, re-examinations, reissues, and	
=		right, title, and interest in and to any a	
applications.			I_{2}
			4
I/We authorize and requ	est that the Patent Office of	fficials in the United States and in any	and all foreign countries to issue
any and all Letters Pate	nt when granted, solely to the	ne Assignee(s), for its sole use, and tha	nt of its successors, assigns, and
legal representatives.			
	•	Assignee to enjoy the foregoing right	*\$
extent. Upon request at	the expense of the Assigne	e, I/we agree to execute all papers, tak	e all rightful oaths, testify in all
Y • Y ,		ons and infringement actions, and do a	•
necessary, desirable, or	convenient for securing and	d maintaining patents on the foregoing	invention or for perfecting title
thereto in the Assignee.			
I/We certify that I/we ha	ave 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
10t 18,2011	Lincoping VII	Tingping Xu	
Date	(print name here)	JingPing XU	, Assignor
	(brune manne mare)		, <u>0</u> -
Date	(print name here)	Shiwei ZHOU	, Assignor
Dale	(print name nere)	Saiwei 21100	, Assignive
			· · · · · · · · · · · · · · · · · · ·
Date	(print name here)	Anthony M GADES	Assignor

Mckee Dunn POLAND

(print name here)

Date

Date

		ve acknowledge receipt, I/we as a below-	
-		ght, title, and interest in the following to	•
		AE, Eindhoven, the Netherlands, its succ	
representatives, includi	ng any nominees (couecus	ely "the Assignee") my/our invention fo	r wnich an application:
is executed concurr	ently herewith		
	e/us on		
•		ving a Serial No	
		ional Application No. PCT/EP2017/057	
KW was then on me three	or worry courting air reconstan	toma expandation inc. a Cariba Boa in Co.	· · · · · · · · · · · · · · · · · · ·
and all rights in and to	said application, and all of	ner United States, foreign and internation	nal patent applications associated
		efrom including, but not limited to, any a	,
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applications.			
app			
I/We authorize and red	uest that the Patent Office	officials in the United States and in any a	and all foreign countries to issue
•		the Assignee(s), for its sole use, and that	
legal representatives.	<i>G</i> ,,		,
I/We will provide my/c	our cooperation to enable th	e Assignee to enjoy the foregoing right,	title, and interest to the fullest
	-	ee, I/we agree to execute all papers, take	
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		nd maintaining patents on the foregoing i	· ·
thereto in the Assignee		ca manufacting parameter the torogones t	arvenies of the pottering the
title out of the 1 tillighte	•		
I/We certify that I/we h	ave the full right to convey	the above rights.	
	(sign name here)		
Date	(print name here)	Shougang WANG	, Assignor
	4		,
Date	(print name here)	Balasundar Iyyavu RAJU	, Assignor
Date	(print name here)	JingPing XU	, Assignor
T/22/2 .A			, 3
05/23/2019	Shinei Zhou	JUE May	
Date	(print name here)	Shiwei ZHOU	, Assignor
Date	(print name here)	Anthony M GADES	, Assignor
	*	-	

PATENT REEL: 055224 FRAME: 0331

, Assignor

(print name here)

Mckee Dunn POLAND

ASSIGNMENT

and assign, and tra	ansfer the entire and exclusive rig s at High Tech Campus 5,5656 A	e acknowledge receipt, I/we as a below tht, title, and interest in the following to E, Eindhoven, the Netherlands, its suc- ely "the Assignee") my/our invention for	o Koninklijke Philips N.V., having cessors, assigns, and legal
☐ is executed co	ncurrently herewith		
	by me/us on		
was filed on	, hav	ing a Serial No	
was filed on.	24 Mar 2017, having an Internati	onal Application No. PCT/EP2017/05	i7096,
therewith, based	thereon, or claiming priority there	ner United States, foreign and internation efrom including, but not limited to, any s-in-part, re-examinations, reissues, and right, title, and interest in and to any a	and all provisionals, non- ad extensions thereof, and the right to
I/We authorize as any and all Lette legal representati	rs Patent when granted, solely to	officials in the United States and in any the Assignee(s), for its sole use, and th	and all foreign countries to issue at of its successors, assigns, and
extent. Upon reclegal proceeding necessary, desirathereto in the As	quest at the expense of the Assign is including patent prosecution ac able, or convenient for securing a	ne Assignee to enjoy the foregoing right nee, I/we agree to execute all papers, ta tions and infringement actions, and do and maintaining patents on the foregoin by the above rights.	ke all rightful oaths, testify in all all other such acts which may be
	(sign name here)		
Date	(print name here)	Shougang WANG	, Assignor
Date	(print name here)	Balasundar lyyavu RAJU	, Assignor
Date	(print name here)	JingPing XU	, Assignor
Date	(print name here)	Shiwei ZHOU	, Assignor
0-11-	- D. W. 1. 1/20		
2 <u>3May20</u> Date	19 ANTHONY GAT (print name here)	Anthony M GADES	, Assignor
Date	(print name here)	Mckee Dunn POLAND	, Assignor

Page 1 of 1

PATENT REEL: 055224 FRAME: 0332

and assign, and transfer a place of business at H	the entire and exclusive right ligh Tech Campus 5,5656 Al	acknowledge receipt, I/we as a below- ht, title, and interest in the following to E, Eindhoven, the Netherlands, its succ ly "the Assignee") my/our invention fo	Koninklijke Philips N.V., having essors, assigns, and legal
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therewith, based thereo provisionals divisions,	n, or claiming priority theref continuations, continuations	er United States, foreign and internation from including, but not limited to, any a in-part, re-examinations, reissues, and right, title, and interest in and to any an	and all provisionals, non- extensions thereof, and the right to
r ·		Ticials in the United States and in any are Assignee(s), for its sole use, and that	**
extent. Upon request a legal proceedings inclu	t the expense of the Assigned ding patent prosecution actic convenient for securing and	Assignee to enjoy the foregoing right, e, I/we agree to execute all papers, take one and infringement actions, and do all maintaining patents on the foregoing in	e all rightful oaths, testify in all I other such acts which may be
I/We certify that I/we h	ave the full right to convey t	the above rights.	
44	(sign name here)		
Date	(print name here)	Shougang WANG	, Assignor
Date	(print name here)	Balasundar Iyyavu RAJU	, Assignor
Date	(print name here)	JingPing XU	, Assignor
Date	(print name here)	Shiwei ZHOU	, Assignor
Date	(print name here)	Anthony M GADES	, Assignor
13-021-2017 Date	McKee O. Polen/ (print name here)	Makee Dunn POLAND	, Assignor
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Page 1 of 1

RECORDED: 02/11/2021

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