#### 504820470 03/15/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4867205

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
BALASUNDAR IYYAVU RAJU	03/14/2018
JINGPING XU	11/21/2016
SHOUGANG WANG	11/20/2016
SHIWEI ZHOU	11/22/2016
ANTHONY M. GADES	03/12/2018

### 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:	15760244

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	2015P00934WOUS
NAME OF SUBMITTER:	CATHERINE E. FELDMAN
SIGNATURE:	/Catherine E. Feldman/
DATE SIGNED:	03/15/2018

**Total Attachments: 5** 

**PATENT REEL: 045226 FRAME: 0943**  source=2015P00934WOUS\_Assignments#page1.tif source=2015P00934WOUS\_Assignments#page2.tif source=2015P00934WOUS\_Assignments#page3.tif source=2015P00934WOUS\_Assignments#page4.tif source=2015P00934WOUS\_Assignments#page5.tif

> PATENT REEL: 045226 FRAME: 0944

and assign, and transfer a place of business at H	the entire and exclusive rig igh Tech Campus 5,5656 A	e acknowledge receipt, I/we as a belo tht, title, and interest in the following E, Eindhoven, the Netherlands, its st ly "the Assignee") my/our invention	to Koninklijke Philips N.V., having accessors, assigns, and legal
is executed concurre	ntly herewith		
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was filed on. 13 Sep	2016, having an Internatio	nal Application No. <b>PCT/IB2016/05</b>	5430,
therewith, based thereon provisionals divisions, c	, or claiming priority there ontinuations, continuations	er United States, foreign and internati from including, but not limited to, an -in-part, re-examinations, reissues, a right, title, and interest in and to any	y and all provisionals, non- nd extensions thereof, and the right to
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extent. Upon request at legal proceedings includ	the expense of the Assigne ing patent prosecution action	Assignce to enjoy the foregoing right, I/we agree to execute all papers, takens and infringement actions, and do I maintaining patents on the foregoin.	ke all rightful oaths, testify in all all all other such acts which may be
I/We certify that I/we ha	ve the full right to convey t	the above rights.	
lond 14,2018	(sign name here)	Q.C.P	
Date	(print name here)	Balasundar Iyyavu RAJU	, Assignor
Date	(print name here)	Jingping XU	, Assignor
Date	(print name here)	Shougang WANG	, Assignor
Date	(print name here)	Shiwei ZHOU	, Assignor

Page 1 of 1

(print name here)

Anthony M. GADES

PATENT REEL: 045226 FRAME: 0945

and assign, and transfer a place of business at F	the entire and exclusive rig ligh 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 succeify "the Assignee") my/our invention for	Koninklijke Philips N.V., having essors, assigns, and legal
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I/We certify that I/we h	ave the full right to convey	the above rights.	Section 1995
	(sign name here)		
Date	(print name here)	Balasundar Iyyavu RAJU	, Assignor
10V 21, 2016	Tingpoog XU	- Tropping XU	
Date	(print name here)	Jingping XU	, Assignor
Date	(print name here)	Shougang WANG	Assignor
	8 8 - 9		
Date	(print name here)	Shiwei ZHOU	Assignor

Page 1 of 1

(print name here)

Anthony M. GADES

. Assignor

Date

and assign, and transfer a place of business at H	the entire and exclusive rig igh Tech Campus 5,5656 A	e acknowledge receipt, I/we as a below-name tht, title, and interest in the following to Ko E, Eindhoven, the Netherlands, its successed by "the Assignee") my/our invention for whether	ninklijke Philips N.V., having ors, assigns, and legal
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was filed on. 13 Sep	2016, having an Internation	nal Application No. PCT/IB2016/055430,	
and all rights in and to s	aid application, and all othe	er United States, foreign and international p	patent applications associated
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claim priority thereto, as applications.	nd the entire and exclusive	right, title, and interest in and to any and al	l patents granted on these
any and all Letters Pater legal representatives.  I/We will provide my/or extent. Upon request at legal proceedings include necessary, desirable, or thereto in the Assignee.	nt when granted, solely to the cooperation to enable the the expense of the Assigne ling patent prosecution action	fficials in the United States and in any and the Assignee(s), for its sole use, and that of a Assignee to enjoy the foregoing right, title e, I/we agree to execute all papers, take all ons and infringement actions, and do all oth maintaining patents on the foregoing investigation that the above rights.	e, and interest to the fullest rightful oaths, testify in all her such acts which may be
	(sign name here)		
Date	(print name here)	Balasundar Iyyavu RAJU	, Assignor
Date	(print name here)	Jingping XU	, Assignor
11/20/2016	SHOUGANG WANG		
Date	(print name here)	Shougang WANG	, Assignor

Page 1 of 1

Anthony M. GADES

Shiwei ZHOU

(print name here)

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PATENT REEL: 045226 FRAME: 0947

, Assignor

		acknowledge receipt, I/we as a below-named	7 2000
	185 15555000 1555 1555 15755000 <del>177</del> 5	t, title, and interest in the following to Konin	•
•		i, Eindhoven, the Netherlands, its successors,	-
representatives, includin	g any nominees (collectively	y "the Assignee") my/our invention for which	i an application:
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was filed on. 13 Sep	<b>2016</b> , having an Internation	al Application No. PCT/IB2016/055430,	
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I/We authorize and requ	est that the Patent Office off	icials in the United States and in any and all	foreign countries to issue
•		e Assignee(s), for its sole use, and that of its	_
legal representatives.			
*	· ·	Assignee to enjoy the foregoing right, title, at	
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-	convenient for securing and	maintaining patents on the foregoing inventi-	on or for perfecting title
thereto in the Assignee.			
I/We certify that I/we ha	ve the full right to convey the	ne above rights.	
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	(sign name here)		
Date	(print name here)	Balasundar Iyyavu RAJU	, Assignor
Date	(print name here)	Jingping XU	, Assignor
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Date	(print name here)	Shougang WANG	, Assignor
11/22/2-016	Shiwei Zhou	1/1/2/hu	
Date	(print name here)	Shiwei ZHOU	, Assignor

Page 1 of 1

Anthony M. GADES

(print name here)

and assign, and t	ransfer the entire and exclusive ries at High Tech Campus 5,5656	we acknowledge receipt, I/we as a below ght, title, and interest in the following to AE, Eindhoven, the Netherlands, its succeely "the Assignee") my/our invention for	Koninklijke Philips N.V., having cessors, assigns, and legal
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extent. Upon reclegal proceeding	quest at the expense of the Assign s 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, take tions and infringement actions, and do and maintaining patents on the foregoing	e all rightful oaths, testify in all
I/We certify that	I/we have the full right to convey	y the above rights.	
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Date	(print name here)	Balasundar Iyyavu RAJU	, Assignor
Date	(print name here)	Jingping XU	, Assignor
Date	(print name here)	Shougang WANG	, Assignor
Date	(print name here)	Shiwei ZHOU	, Assignor
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Date	(print name here)	Anthony M. GADES	, Assignor

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PATENT **REEL: 045226 FRAME: 0949**