PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 **EPAS ID: PAT5577726**

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHUANYONG BAI	12/18/2017
ANDRIY ANDREYEV	12/18/2017
ANDRE FRANK SALOMON	12/18/2017
ANDREAS GOEDICKE	12/18/2017
JINGHAN YE	12/19/2017
YU-LUNG HSIEH	01/09/2018
BIN ZHANG	12/20/2017
XIYUN SONG	01/02/2018
MANOJ NARAYANAN	12/18/2017
ZHIQIANG HU	01/03/2018

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:	16470730

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: 9144959512

Email: patti.demichele@philips.com

PHILIPS IP&S Correspondent Name:

Address Line 1: 465 COLUMBUS AVENUE

Address Line 2: **SUITE 340**

Address Line 4: VALHALLA, NEW YORK 10595

ATTORNEY DOCKET NUMBER: 2016P01236WOUS

REEL: 049504 FRAME: 0597 505530929

PAIENI

NAME OF SUBMITTER:	DAVID LAWRENCE SCHREIBEER	
SIGNATURE:	/David Lawrence Schreiber/	
DATE SIGNED:	06/18/2019	
Total Attachments: 8		
source=2016P01236WOUS-ASSIGNMENT#page1.tif		
source=2016P01236WOUS-ASSIGNMENT#page2.tif		
source=2016P01236WOUS-ASSIGNMENT#page3.tif		
source=2016P01236WOUS-ASSIGNMENT#page4.tif		
source=2016P01236WOUS-ASSIGNMENT#page5.tif		
source=2016P01236WOUS-ASSIGNMENT#page6.tif		
source=2016P01236WOUS-ASSIGNMENT#page7.tif		

source=2016P01236WOUS-ASSIGNMENT#page8.tif

and assign, and trar a place of business	nsfer the entire and exclusive ri at High Tech Campus 5,5656	ve acknowledge receipt, I/we as a beloght, title, and interest in the following AE, Eindhoven, the Netherlands, its swely "the Assignee") my/our invention	to Koninklijke Philips N.V., having accessors, assigns, and legal
is executed con-	currently herewith		
	y me/us on		
		ving a Serial No.	0.
		onal Application No. PCT/EP2017/0	
***		her United States, foreign and internat	
145	-	efrom including, but not limited to, ar	
		ns-in-partyre-examinations, reissues, a	
· ·	eto, and the entire and exclusive	e right, title, and interest in and to any	and all patents granted on these
applications.			
	Patent when granted, solely to	officials in the United States and in an the Assignee(s), for its sole use, and t	
extent. Upon required legal proceedings i	est at the expense of the Assign neluding patent prosecution ac e, or convenient for securing a	ne Assignee to enjoy the foregoing rig nee, I/we agree to execute all papers, to tions and infringement actions, and do nd maintaining patents on the foregoin	ske all rightful oaths, testify in all all all other such acts which may be
I/We certify that I/	we have the full right to conve	y the above rights.	
		arthury (fundament	***************************************
Carren ma	(sign name here)		
Date	(print name here)	Chaanyong BAI	_s .Assignor
18 - Dec - 301:	*	AW	*
Date	(print name here)	Andriy ANDREYEV	, Assignor
	w		
Date	(print name here)	Andre Frank SALOMON	_g Assignor
Date	(print name here)	Andreas GOEDICKE	, Assignor
as testo	Corner rememo sensos	a months of the second of the month of the Manual	g a reconsignation
Date	(print name here)	Jinghan YE	, Assignor
Date	(print name here)	Yu-Lung HSIEH	s Assignor

(print name here)

		e acknowledge receipt, I/we as a belo	
			g to Koninklijke Philips N.V., having
		E, Eindhoven, the Netherlands, its s	***
representatives, inch	uding any nominees (collective	ly "the Assignee") my/our invention	a for which an application:
is executed conce	urrently herewith		
	me/us on	***************************************	
was filed on	, havi	ng a Serial No	
		nal Application No. PCT/EP2017/0	
and all rights in and	to said application, and all othe	r United States, foreign and internal	tional patent applications associated
		from including, but not limited to, as	
			and extensions thereof, and the right to
		right, title, and interest in and to any	
applications.			
I/We authorize and r	request that the Patent Office o	fficials in the United States and in ar	wand all foreion countries to iccue
		ne Assignee(s), for its sole use, and t	
legal representatives			was an
I/We will provide m	v/our cooperation to enable the	Assignee to enjoy the foregoing rig	the title and interest to the fullest
		e, I/we agree to execute all papers, to	
		ons and infringement actions, and do	
		I maintaining patents on the foregoin	•
thereto in the Assign		Ø X	State and of the forthward than
I/We certify that I/w	e have the full right to convey	the above rights.	
	(sign name here)		
Date	(print name here)	Chuanyong BAI	, Assignor
Date	(print name here)	Andriy ANDREYEV	, Assignor
78.72,2017	Andre F. Salomon	1000-00	
Date	(print name here)	Andre Frank SALOMON	, Assignor
Date	(print name here)	Andreas GOEDICKE	, Assignor
			· · · · · · · · · · · · · · · · · · ·
Date	(print name here)	Jinghan YE	, Assignor
Date	(print name here)	Yn-Lung WSIEH	, Assignor

Bis ZHANG

(print name here)

Date

PATENT REEL: 049504 FRAME: 0600

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

		AE, Eindhoven, the Netherlands, i ely "the Assignee") my/our inven	"
	oncurrently herewith		
	by meas on		
		ving a Serial Noonal Application No. PCT/EP201	
therewith, based to provisionals divis	thereon, or claiming priority ther dons, continuations, continuation	refrom including, but not limited to as-in-part, re-examinations, reissue	rnational patent applications associated
	s Patent when granted, solely to		n any and all foreign countries to issue nd that of its successors, assigns, and
extent. Upon req legal proceedings	uest at the expense of the Assign including patent prosecution ac ole, or convenient for securing a	nce, I/we agree to execute all paper tions and infringement actions, and	right, title, and interest to the fullest is, take all rightful oaths, testify in all d do all other such acts which may be going 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)	Chuanyong BAI	Assignor
Date	(print name here)	Andriy ANDREYEV	, Assignor
Date	(print name here)	Andre Frank SALOMON	yAssignor_7
18-12-17	Andreas	Conedido	
Date	(print name here)	Andreas GOEDICKE	C/Assignor
Date	(print name here)	Jinghan YE	, Assignor
Date	(print name here)	Yu-Lung HSIEH	, Assignor
Date	(print name here)	Bia ZHANG	, Assignor

and assign, and transfer a place of business at Hi	the entire and exclusive rig gh Tech Campus 5,5656 A	acknowledge receipt, I/we as a below ht, title, and interest in the following t E, Eindhoven, the Netherlands, its suc ly "the Assignee") my/our invention i	to Koninklijke Philips N.V., having eccessors, assigns, and legal
is executed concurrer	ntly herewith		
was executed by me/	us on		
was filed on	, havi	ng a Serial No	*****************
was filed on. 18 Dec	2017, having an Internation	nal Application No. PCT/EP2017/08:	3188,
therewith, based thereon provisionals divisions, or	, or claiming priority theref ontinuations, continuations	or United States, foreign and internation from including, but not limited to, any in-in-part, re-examinations, reissues, and right, title, and interest in and to any a	and all provisionals, non- d extensions thereof, and the right to
•		ficials in the United States and in any see Assignce(s), for its sole use, and the	•
extent. Upon request at legal proceedings includ	the expense of the Assigneding patent prosecution action	Assignce to enjoy the foregoing right e, I/we agree to execute all papers, takens and infringement actions, and do a maintaining patents on the foregoing	te all rightful oaths, testify in all all other such acts which may be
I/We certify that I/we ha	ve the full right to convey t	he above rights.	
	(sign name here)		
Date	(print name here)	Chuanyong BAI	, Assignor
Date	(print name here)	Andriy ANDREYEV	, Assignor
Date	(print name here)	Andre Frank SALOMON	, Assignor
Date	(print name here)	Andreas GOEDICKE	, Assignor
DEC-19-2017	JINGHAN YE	Jungle 4x	
Date	(print name here)	Jinghan YE	, Assignor
Date	(print name here)	Yu-Lung HSIEH	, Assignor

Bin ZHANG

Date

(print name here)

PATENT REEL: 049504 FRAME: 0602

Date

Date

and assign, and transfer a place of business at Hi	the entire and exclusive righ Tech Campus 5,5656	we acknowledge receipt, I/we as a below-name ght, title, and interest in the following to Kon AE, Eindhoven, the Netherlands, its successorely "the Assignee") my/our invention for wh	inklijke Philips N.V., having rs, assigns, and legal
was filed on	us on, hav	ving a Serial Noonal Application No. PCT/EP2017/083188,	
therewith, based thereon provisionals divisions, c	, or claiming priority ther ontinuations, continuation	ner United States, foreign and international parefrom including, but not limited to, any and a as-in-part, re-examinations, reissues, and exter exight, title, and interest in and to any and all	ll provisionals, non- nsions thereof, and the right to
_		officials in the United States and in any and a the Assignee(s), for its sole use, and that of it	-
extent. Upon request at legal proceedings includ	the expense of the Assign	ne Assignee to enjoy the foregoing right, title, ee, I/we agree to execute all papers, take all rations and infringement actions, and do all other administration patents on the foregoing inventor.	ightful oaths, testify in all er such acts which may be
I/We certify that I/we ha	ive the full right to convey	the above rights.	
	(sign name here)	- DAY	
Date	(print name here)	Chuanyong BAI	, Assignor
Date	(print name here)	Andriy ANDREYEV	, Assignor
Date	(print name here)	Andre Frank SALOMON	, Assignor
Date	(print name here)	Andreas GOEDICKE	, Assignor
Date	(print name here)	Jinghan YE Yu-Lung Hsieh Digitally signed by Yu-Lung Hsieh Date: 2018.01.09 09:18:51 -05:00'	, Assignor

Yu-Lung HSIEH

Bin ZHANG

(print name here)

(print name here)

PATENT REEL: 049504 FRAME: 0603

, Assignor

1/2/2018	Xiyun Song	Q== \$1 2 \$2 \$2	
Date	(print name here)	Xiyun SONG	, Assignor
Date	(print name here)	Manoj NARAVANAN	. Assignor
Date	(print name here)	Zhiqiang HU	, Assignor

Page 2 of 2

Date // - Date - 20/7	(print name here)	Xivun SONG Mulles Hiraingnan	, Assignor
Date	(print name here)	Manoj NAKAYANAN	, Assignor
Date	(print name here)	Zhiqiang HU	

Page 2 of 2

Date	(print name here)	Xiyan SONG	, Assignor
		48	
Date	(print name here)	Masoj NARAYANAN	, Assignor
1/3/2018		The Hall	
Date	(print name here)	Zhiqiang HU	. Assignor

Page 2 of 2