504394579 06/02/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4441276

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEVEN ERNEST FRANKLIN	12/14/2015
CORNELIS PETRUS HENDRIKS	12/14/2015
LUTZ CHRISTIAN GERHARDT	12/14/2015
HANS KROES	12/14/2015
DAAN ANTON VAN DEN ENDE	12/15/2015

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:	15532569

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

Email: debbie.henn@philips.com

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

Address Line 1: 465 COLUMBUS AVENUE

SUITE 340 Address Line 2:

Address Line 4: VALHALLA, NEW YORK 10595

ATTORNEY DOCKET NUMBER:	2014P01237WOUS
NAME OF SUBMITTER:	KATHLEEN A. ASHER
SIGNATURE:	/KATHLEEN A. ASHER/
DATE SIGNED:	06/02/2017

Total Attachments: 5

PATENT REEL: 042571 FRAME: 0907

504394579

source=2014P01237WOUS_Assignment#page1.tif source=2014P01237WOUS_Assignment#page2.tif source=2014P01237WOUS_Assignment#page3.tif source=2014P01237WOUS_Assignment#page4.tif source=2014P01237WOUS_Assignment#page5.tif

PATENT REEL: 042571 FRAME: 0908 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 co	ncorrectly here:	with					
		by me/us on						
		*******		, having a	Serial No.	* * * * * * * * * * * * * * * * * * * *		
M			ving an Inte	mational A	pplication		EP2015/0784	71,

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.

it Decanter	- 2015 (sign name here)	Ethale.	
Date	(print name here)	Steven Ernest FRANKLIN	, Assignor
Date	(print name here)	Cornelis Petrus HENDRIKS	, Assignor
Date	(print name here)	Lutz Christian GERHARDT	, Assignor
Date	(print name here)	Hans KROES	, Assignor
Date	(print name here)	Daan Anton VAN DEN ENDE	

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. 03 Dec 2015, having an International Application No. PCT/EP2015/078471, 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, nonprovisionals 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. (sign name here) Date Steven Ernest FRANKLIN (print name here) , Assignor Cornelis Petrus HENDRIKS (print name here) , Assignor Date Lutz Christian GERHARDT (print name here) , Assignor Hans KROES Date (print name here) , Assignor

Page 1 of 1

(print name here)

Daan Anton VAN DEN ENDE

Date

, 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 tr	ansfer the entire and exclusive ri	ight, title, and interest in the following to K	oninklijke Philips N.V., having
•		AE, Eindhoven, the Netherlands, its succes	
representatives, in	ncluding any nominees (collectiv	ely "the Assignee") *** our invention for t	which an application:
is executed co	neurrently herewith		
was executed	by me/us on		
was filed on	, ha	ving a Serial No	***********
was filed on.	03 Dec 2015, having an Internati	onal Application No. PCT/EP2015/07847	ĭ,
and all rights in a	nd to said application, and all of	her United States, foreign and international	patent applications associated
therewith, based t	thereon, or claiming priority ther	refrom including, but not limited to, any an	d all provisionals, non-
provisionals divis	sions, continuations, continuation	ns-in-part, re-examinations, reissues, and e	xtensions thereof, and the right to
claim priority the	reto, and the entire and exclusive	e right, title, and interest in and to any and	all patents granted on these
applications.			
	rs Patent when granted, solely to	officials in the United States and in any an the Assignee(s), for its sole use, and that o	
extent. Upon req legal proceedings	nuest at the expense of the Assign s including patent prosecution ac ble, or convenient for securing a	he Assignee to enjoy the foregoing right, ti nee, I/ agree to execute all papers, take a tions and infringement actions, and do all o ad maintaining patents on the foregoing in	other such acts which may be
I/we certify that	I/we have the full right to conve	y the above rights	
	(sign name here)		
Date	(print name here)	Steven Ernest FRANKLIN	, Assignor
Date	(print name here)	Cornelis Petrus HENDRIKS	, Assignor
14/12/201	15 1211111	- Diana	
Date Date	(print name here)	Lutz Christijin GERHARDT	, Assignor

Date	(print name here)	Hans KROES	, Assignor
Date	(print name here)	Daan Anton VAN DEN ENDE	, Assignor

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), hereby sell,

er the entire and exclusive ri	ight, title, and interest in the following to I	Coninklijke Philips N.V., having
High Tech Campus 5,5656.	AE, Eindhoven, the Netherlands, its succe	ssors, assigns, and legal
ing any nominees (collectiv	vely "the Assignee") my/our invention for	which an application:
rently herewith		
e/us on		
, ba	ving a Serial No	CHVILLIA
ec 2015, having an Internati	ional Application No. PCT/EP2015/07847	71,
said application, and all of	her United States, foreign and internationa	l patent applications associated
on, or claiming priority ther	refrom including, but not limited to, any ar	ad all provisionals, non-
continuations, continuation	ns-in-part, re-examinations, reissues, and e	xtensions thereof, and the right to
and the entire and exclusive	e right, title, and interest in and to any and	all patents granted on these
uding patent prosecution ac r convenient for securing at	tions and infringement actions, and do all	other such acts which may be
have the full right to convey	y the above rights.	
(sign name here)		
(print name here)	Steven Ernest FRANKLIN	, Assignor
(print name here)	Cornelis Petrus HENDRIKS	, Assignor
(print name here)	Lutz Shiyissian GERHARDT	, Assignor
Hons Kroes		
(print name here)	JIMS KROES	, Assignor
(print name here)	Dasn Anton VAN DEN ENDE	, Assignor
	High Tech Campus 5,5656 ing any nominees (collective rently herewith selus on	said application, and all other United States, foreign and international on, or claiming priority therefrom including, but not limited to, any are continuations, continuations-in-part, re-examinations, reissues, and e and the entire and exclusive right, title, and interest in and to any and quest that the Patent Office officials in the United States and in any and ent when granted, solely to the Assignee(s), for its sole use, and that the expense of the Assignee, I/we agree to execute all papers, take a ading patent prosecution actions and infringement actions, and do all a reconvenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and maintaining patents on the foregoing in the convenient for securing and the convenient for securing and the convenient for securing and the

RECORDED: 06/02/2017

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, its succeively "the Assignee") my/our invention for	
is executed co	ncurrently herewith		
	by me/us on		
was filed on	, ha	ving a Serial No	
was filed on. (03 Dec 2015, having an Internati	ional Application No. PCT/EP2015/0784	71,
and all rights in a	nd to said application, and all ot	her United States, foreign and internation	al patent applications associated
therewith, based t	hereon, or claiming priority the	refrom including, but not limited to, any a	nd all provisionals, non-
		ns-in-part, re-examinations, reissues, and	· ·
claim priority the applications.	reto, and the entire and exclusiv	e right, title, and interest in and to any and	d all patents granted on these
	s Patent when granted, solely to	officials in the United States and in any a the Assignee(s), for its sole use, and that	
extent. Upon requestings	uest at the expense of the Assign including patent prosecution ac ole, or convenient for securing a	he Assignee to enjoy the foregoing right, to hee. I/we agree to execute all papers, take tions and infringement actions, and do all all maintaining patents on the foregoing in	all rightful oaths, testify in all other such acts which may be
I/We certify that I	I/we have the full right to conve	y the above rights.	
	(sign name here)		
Date	(print name here)	Steven Ernest FRANKLIN	, Assignor
Date	(print name here)	Cornelis Petrus HENDRIKS	, Assignor
Date	(print name here)	Luiz Christian GERHARDT	, Assignor
Date	(print name here)	Hans KROES	, Assignor
2015/12/15	, , , , , , , , , , , , , , , , , , ,	Walt Me	
Date	(print name here)	Daán Anton VAN DEN ENDE	, Assignor

Page 1 of 1

PATENT REEL: 042571 FRAME: 0913