## 503613825 12/16/2015

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
BRAM KNAAPEN	12/12/2013
ANTHONIE HENDRIK BERGMAN	12/12/2013
TIM DEKKER	12/16/2015

#### **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:	14653584

#### CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 2012P00407WOUS	
NAME OF SUBMITTER:	MEENAKSHY CHAKRAVORTY
SIGNATURE:	/Meenakshy Chakravorty/
DATE SIGNED:	12/16/2015

### **Total Attachments: 3**

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PATENT 503613825 REEL: 037302 FRAME: 0984

For good and valu	able consideration, of which I/2	we acknowledge receipt, I/we as a below-n	amed Assignor(s), hereby sell,
and assign, and tra	nsfer the entire and exclusive r	right, title, and interest in the following to F	Coninklijke Philips N.V., having
a place of business	at High Tech Campus 5,5656	AE, Eindhoven, the Netherlands, its succession	ssors, assigns, and legal
representatives, in	cluding any nominees (collecti	vely "the Assignee") my/our invention for	which an application:
is executed cor	ncurrently herewith		
was executed b	y me/us on	**********************	
was filed on	, ha	ving a Serial No	***************************************
was filed on. 1	1 Dec 2013, having an Internat	ional Application No. PCT/IB2013/06081	€,
and all rights in an	d to said application, and all ot	ther United States, foreign and internationa	I patent applications associated
therewith, based th	ereon, or claiming priority the	refrom including, but not limited to, any an	d all provisionals, non-
provisionals divisi	ons, continuations, continuatio	ns-in-part, re-examinations, reissues, and e	xtensions thereof, and the right to
claim priority then applications.	cto, and the entire and exclusiv	e right, title, and interest in and to any and	all patents granted on these
	Patent when granted, solely to	officials in the United States and in any an the Assignce(s), for its sole use, and that o	
extent. Upon requi legal proceedings i	est at the expense of the Assign including patent prosecution ac le, or convenient for securing a	he Assignee to enjoy the foregoing right, ti nee, I/we agree to execute all papers, take a stions and infringement actions, and do all a and maintaining patents on the foregoing in	Il rightful oaths, testify in all other such acts which may be
VWe certify that I/	we have the full right to conve	y the above rights.	
15-12-13	(sign name here)		
Date	(print name here)	Brsm KNAAPEN	, Assignor
Date	(print name here)	Anthonic Hendrik BERGMAN	, Assignor
Date	(print name here)	Tim DEKKER	Assignor

Page 1 of 1

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

representatives, including any nominees (collectively "the Assignee") mylour invention for which an application:    is executed concurrently herewith   was executed by me'us on   having a Serial No.   was filed on.   having a Serial No.   PCT/IB2813/060814,  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 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 mylour 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.    We certify that I/we have the full right to convey the above rights.    Brans KNAAPEN   Assignor   Assignor   Authority BERGMAN   Assignor   Assignor   Authority BERGMAN   Assignor   Authority	and assign, and tran	sfer the entire and exclusive r	ight, title, and interest in the following to AE, Eindhoven, the Netherlands, its succ	Koninklijke Philips N.V., having
was filed on				· · · · · · · · · · · · · · · · · · ·
was filed on. 11 Dec 2013, having an International Application No. PCT/IB2013/060814,  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 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 sgree 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.  [Sign name here]  [Sign name here]  [Optic name here]	was executed by	me us on		омонемем
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 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)  (print name here)  (print name here)  Anthorie Hendrik BERGMAN , Assignor				
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.   Live 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, live 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.  Live certify that live have the full right to convey the above rights.  (sign name here)  Date (print name here)  Brass KNAAPEN , Assignor  Anthonic Headrik BERGMAN , Assignor	therewith, based the provisionals division claim priority theret	reon, or claiming priority the ns, continuations, continuation	refrom including, but not limited to, any a ns-in-part, re-examinations, reissues, and	and all provisionals, non- extensions thereof, and the right to
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)  Bram KNAAPEN  , Assignor  (print name here)  Authorie Hendrik BERGMAN  , Assignor	any and all Letters I	atent when granted, solely to	•	- <b>T</b>
(sign name here)  Date (print name here)  Bram KNAAPEN , Assignor  Common commo	extent. Upon reque legal proceedings in necessary, desirable thereto in the Assign	st at the expense of the Assign cluding patent prosecution act, or convenient for securing a nee.	nce, I/we agree to execute all papers, take tions and infringement actions, and do all nd maintaining patents on the foregoing it	all rightful oaths, testify in all other such acts which may be
Date (print name here) Bram KNAAPEN , Assignor  Date (print name here) Authorie Headrik BERGMAN , Assignor	n as a net rest is a treat to ea	e have the this tisks to conve	y tine above rights.	
Date (print name here) Authonie Heudrik BERGMAN , Assignor				nin Sinjinininininininin
Date (print name here) Authonie Heudrik BERGMAN , Assignor	Date	(print name here)	Bram KNAAPEN	
	Date	(print name here)	Anthonie Heudrik BERGMAN	
Date (print name here) Tim DEKKER , Assignor	Date	(print name here)	Tim DEKKER	

Page 1 of 1

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

a place of business at I	High Tech Campus 5,5656	ght, title, and interest in the following to AE, Eindhoven, the Netherlands, its succe	essors, assigns, and legal
representatives, includ	ing any nominees (collectiv	ely "the Assignee") my/our invention for	which an application:
was filed on		ving a Scriel Noonal Application No. PCT/IB2013/0608	
therewith, based there- provisionals divisions,	on, or claiming priority ther continuations, continuation	ner United States, foreign and internations efrom including, but not limited to, any a ns-in-part, re-examinations, reissues, and e right, title, and interest in and to any and	and all provisionals, non- extensions thereof, and the right to
	•	officials in the United States and in any a the Assignee(s), for its sole use, and that	
extent. Upon request legal proceedings incl	at the expense of the Assignuding patent prosecution ac 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 all maintaining patents on the foregoing i	all rightful oaths, testify in all tother 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)	Bram KNAAPEN	, Assignor
Date	(print name here)	Anthonie Hendrik BERGMAN	, Assignor
Date 16-72 ~ 33/5	(print name here)	Tim DEKKER	Assignor
	·	Page 1 of 1	

PATENT REEL: 037302 FRAME: 0987

**RECORDED: 12/16/2015**