505753015 11/01/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GERARDUS BERNARDUS JOZEF MULDER	05/11/2018
THEO JENNESKENS	05/26/2018
JAN KONIJN	05/18/2018
MARTIJN KRELIS TERMEER	05/16/2018
GUUS VAN HEST	08/15/2018

RECEIVING PARTY DATA

Name:	KONINKLIJKE PHILIPS N.V.	
Street Address:	HIGH TECH CAMPUS 5	
City:	EINDHOVEN	
State/Country:	NETHERLANDS	
Postal Code:	5656AE	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16610147

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: MARIANNE.FOX@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

Tatal Attaches 5	
DATE SIGNED:	11/01/2019
SIGNATURE:	/MARIANNE FOX/
NAME OF SUBMITTER:	MARIANNE FOX
ATTORNEY DOCKET NUMBER:	2017P01566WOUS

Total Attachments: 5

PATENT REEL: 050888 FRAME: 0281

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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. 93 May 2018, having an International Application No. PCT/EP2018/061250,

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 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.

2018-05-11	(sign name here)		
Date	(print name here)	Geraedus Bernardus Jozef MULDER	, Assignor
Date	(print name here)	Theo JENNESKENS	, Assignor
Date	(print name here)	Jan KONIJN	, Assignor
Date	(print name here)	Martijn Krelis TERMEER	, Assignor
Date	(print name here)	Gaus VAN HEST	, Assignor

Page 1 of 1

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-nan and assign, and transfer the entire and exclusive right, title, and interest in the following to Ko a place of business at High Tech Campus 5,5656 AE, Eindhoven, the Netherlands, its successor representatives, including any nominees (collectively "the Assignee") my/our invention for whether the successor including any nominees (collectively "the Assignee") my/our invention for whether the successor including any nominees (collectively "the Assignee") my/our invention for whether the successor including any nominees (collectively "the Assignee") my/our invention for whether the successor including any nominees (collectively "the Assignee") my/our invention for whether the successor in the following to Ko	ninklijke Philips N.V., having ors, assigns, and legal
is executed concurrently herewith	
was executed by me/us on	
was filed on, having a Serial No	
was filed on. 03 May 2018, having an International Application No. PCT/EP2018/061250),
and all rights in and to said application, and all other United States, foreign and international p	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 ext	
claim priority thereto, and the entire and exclusive right, title, and interest in and to any and al applications.	l patents granted on these
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I/We will provide my/our cooperation to enable the Assignee to enjoy the foregoing right, title extent. Upon request at the expense of the Assignee, I/we agree to execute all papers, take all legal proceedings including patent prosecution actions and infringement actions, and do all oth necessary, desirable, or convenient for securing and maintaining patents on the foregoing invethereto in the Assignee.	rightful oaths, testify in all ter such acts which may be
I/We certify that I/we have the full right to convey the above rights.	
(sign name here)	
Date (print name here) Geraphus Bernardus Jozef MULDER	, Assignor
76-MAS-2011 THEO JENNOY	
Date (print name here) Stated JENNESKENS	, Assignor
Date (print name here) Jan KONUN	, Assignor
Date (print name here) Martija Krelis TERMEER	, Assigner
Date (print name here) Gues VAN HEST	, Assignor

Page 1 of 1

		ve acknowledge receipt, I/we as a below-nam- ight, title, and interest in the following to Kon	
		AE, Eindhoven, the Netherlands, its successo.	
		vely "the Assignee") my/our invention for wh	
is executed con	currently herewith		
was executed b	y me/us on		
was filed on	, ha	ving a Serial No	*****
was filed on. 03	3 May 2018, having an Interna	tional Application No. PCT/EP2018/061250,	
and all rights in an	d to said application, and all ot	her United States, foreign and international pa	ratent applications associated
therewith, based th	ereon, or claiming priority the	refrom including, but not limited to, any and a	ill provisionals, non-
provisionals division	ons, continuations, continuation	ns-in-part, re-examinations, reissues, and exte	nsions thereof, and the right to
claim priority there	eto, and the entire and exclusive	e right, title, and interest in and to any and all	patents granted on these
applications.			
I/We authorize and	I request that the Patent Office	officials in the United States and in any and a	Il foreign countries to issue
any and all Letters	Patent when granted, solely to	the Assignee(s), for its sole use, and that of it	s successors, assigns, and
legal representative	CS.		
I/We will provide i	my/our cooperation to enable t	he Assignee to enjoy the foregoing right, title,	, and interest to the fullest
extent. Upon requ	est at the expense of the Assign	nee, I/we agree to execute all papers, take all i	ightful oaths, testify in all
legal proceedings i	ncluding patent prosecution ac	tions and infringement actions, and do all oth	er such acts which may be
necessary, desirabl	e, or convenient for securing a	nd maintaining patents on the foregoing inver	ation or for perfecting title
thereto in the Assig	gnee.		
I/We certify that I/	we have the full right to conve	y the above rights.	
	(sign name here)		
Date	(print name here)	Gerardus Bernardus Jozef MULDER	, Assignor
Date	(print name here)	Theo JENNESKENS	, Assignor
Date	(print name here)	Jan KONIJN	, Assignor
10-May-2	ord	Marian Ma	
Date	(print name here)	Martija Krelis TERMEER	, Assignor
Date	(print name here)	Guus VAN HEST	, Assignor

Page 1 of 1

and assign, and transfer in Antice and conference organ, and more at me were the successors, assigns, and legal a place of business at High Tech Campus 5,5656 AE, Eindhoven, the Netherlands, its successors, assigns, and legal
espresentatives, including any nominees (collectively "the Assignee") myour myound for Which ha application.
E is executed concurrently horewith
Was executed by metho (18 minument of management of manage
🔲 was filed on
🛛 was filed om. 83 May 2018, huving an International Application No. PCT/RP1018/861258,
and all rights in and to said application, and all other United States, foreign and international patent applications associated
therewith, based thereon, or claiming privatly 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, litle, and interest in and to my and all parents granted on these

17We 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 Perent when granted, solicly to the Assignoods), for its sole use, and that of its successors, assigns, and legal representatives.

applications.

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 I'We will provide my/our conparation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignes, live agree to excente all papers, take all rightful oaths, testify in all hereto in the Assignee.

I'We certify that I'we have the full right to convey the above rights.

	Assignor	, Assignor	, Assignor	, Assignor	, Assignor
	Gerardus Bernardus Jozef MULDER.	Theo JENNESKENS	Jan Kilkiik	Martija Kreks TERMEER	Grus VAN HEST
(sign name here)	(print name here)	(print name here)	(print came here)	(print name here)	(print name here)
	Trate	Date	12018 1702 16. 2018	Date	Date

Page 1 of 1

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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:
year,

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.

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	(sign name here)		
Date	(print name here)	Gerardus Bernardus Jozef MULDER	, Assignor
Date	(print name here)	Theo JENNESKENS	, Assignor
Date	(print name here)	Jan KONIJN	, Assignor
Date	(print name here)	Martija Krelis TERMEER	, Assignor
Date 15 909-2018	(print name here)	JASVAN HEST	, Assignor

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