505620583 08/14/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5667385

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ACHIM HILGERS	11/19/2018
MARK THOMAS JOHNSON	11/21/2018
DAAN ANTON VAN DE ENDE	11/19/2018

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:	16485815

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	MARIANNE FOX
SIGNATURE:	/MARIANNE FOX/
DATE SIGNED:	08/14/2019

Total Attachments: 3

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PATENT 505620583 REEL: 050046 FRAME: 0122

Date:

Date:

Signature:

Signature:

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s) or Inventor, 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 filed on ***, having a United States Application No. ***
was filed on 2018-Feb-12, having an International Application No. PCT/EP2018/053381,
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.
As a below-named Inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original Inventor or an original joint Inventor of a claimed invention in the application.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.
Date: <u>20パピールシップ</u> Signature: Achim HILGERS , Assignor/Inventor

Mark Thomas JOHNSON

Daan AntonVAN DEN ENDE

Assignor/Inventor

Assignor/Inventor

For good and valuable considerate hereby sell, and assign, and transhaving a place of business at Higrepresentatives, including any no	isfer the entire gh Tech Camp	e and exclusive right ous 5, 5656 AE, Ein	t, title, and interest in dhoven, the Netherla	the following to nds, its succes	o Koninklijke Philips N.V., sors, assigns, and legal
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was filed on ***, having a Un	ited States Ap	plication No. ***			
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and all rights in and to said appli therewith, based thereon, or clai divisions, continuations, continua- thereto, and the entire and exclu-	ming priority thations-in-part,	herefrom including, re-examinations, re	but not limited to, an issues, and extension	y and all provis ns thereof, and	ionals, non-provisionals the right to claim priority
I/We authorize and request that and all Letters Patent when gran representatives.					
I/We will provide my/our coopera Upon request at the expense of proceedings including patent pro necessary, desirable, or conveni thereto in the Assignee.	the Assignee, secution actic	I/we agree to execons and infringemen	ute all papers, take a it actions, and do all	ll rightful oaths, other such acts	testify in all legal which may be
I/We certify that I/we have the fu	Ill right to conv	ey the above rights			
As a below-named Inventor, I he and that I am the original Inventor	•		7.		
I hereby acknowledge that any vimprisonment of not more than f			declaration is punisi	hable under 18	U.S.C. 1001 by fine or
Date:	Signature:				Assignor/Inventor
Date: 21/11/2318	Signature:	Achim HILGERS Wark Thomas JO	INSON	m.	Assignor/Inventor

Daan AntonVAN DEN ENDE

Signature:

PATENT REEL: 050046 FRAME: 0124

Assignor/Inventor

RECORDED: 08/14/2019

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s) or Inventor, hereby sell, and assign, and transfer the entire and exclusive right, title, and interest in the following to Koninklijke Philips N.V.,

		pus 5, 5656 AE, Eindhoven, the Netherlands, its succ actively "the Assignee") my/our invention for which an	
is executed concurrently here was filed on ***, having a Un was filed on 2018-Feb-12, have	ited States Ap	oplication No. *** national Application No. PCT/EP2018/053381,	
therewith, based thereon, or cial divisions, continuations, continuations,	ming priority t ations-in-part,	l other United States, foreign and international patent herefrom including, but not limited to, any and all pro- re-examinations, reissues, and extensions thereof, a a, and interest in and to any and all patents granted o	visionals, non-provisionals nd the right to claim priority
		fice officials in the United States and in any and all fo the Assignee(s), for its sole use, and that of its succe	
Upon request at the expense of proceedings including patent pro	the Assignee, secution action	e the Assignee to enjoy the foregoing right, title, and i I/we agree to execute all papers, take all rightful oatl ons and infringement actions, and do all other such a ng and maintaining patents on the foregoing invention	ns, testify in all legal cts which may be
I/We certify that I/we have the fu	ll right to conv	vey the above rights.	
		that the above-identified application was made or aut al joint Inventor of a claimed invention in the applicati	
I hereby acknowledge that any vimprisonment of not more than fi		tement made in this declaration is punishable under or both.	18 U.S.C. 1001 by fine or
Date:	Signature:	Achim HILGERS	Assignor/Inventor
Date:	Signature:	Mark-Thomas JOHNSON	Assignor/Inventor
Date: 19-11-2018	Signature:	Dant AmonVAN DEN ENDE	Assignor/Inventor

PATENT REEL: 050046 FRAME: 0125