PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6166133

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BABU VARGHESE	01/16/2019
WOUTER HENDRIK CORNELIS SPOORENDONK	01/07/2019
WALTER HERMANS	05/17/2019
MARCO BARAGONA	01/08/2019
ANNA EZERSKAYA	01/13/2019

RECEIVING PARTY DATA

Name:	KONINKLIJKE PHILIPS N.V.
Street Address:	HIGH TECH CAMPUS 52
City:	EINDHOVEN
State/Country:	NETHERLANDS
Postal Code:	5656 AE

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16957125

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: jaclyn.busta@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

Total Attachments, 5	
DATE SIGNED:	06/23/2020
SIGNATURE:	/Douglas B. McKnight/
NAME OF SUBMITTER:	DOUGLAS B. MCKNIGHT
ATTORNEY DOCKET NUMBER:	2017P02638WOUS

Total Attachments: 5

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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-Dec-27, having an International Application No. PCT/EP2018/097029, 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: 16-01-2019 Signature: Assignor/Inventor Babu VARGHESE Date: Signature: Assignor/Inventor Wouter Hendrik Cornelis SPOORENDONK Date: Signature: Assignor/Inventor

Walter HERMANS

Marco BARAGONA

Anna EZERSKAYA

Signature:

Signature:

Date: _____

Date: _____

PATENT REEL: 053008 FRAME: 0596

Assignor/Inventor

Assignor/Inventor

U.S.A. Sole/Joint

ASSIGNMENT & DECLARATION

Docket No. 2017P02638WOUS

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-Dec-27, having an International Application No. PCT/EP2018/097029

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, reexaminations, 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:	Signature:		_ Assignor/Inventor
Date: 67-01-7019	Signature:	Babu VARGHESE	_ Assignor/Inventor
Date:	Signature:	Wouter Hendrik Cornelis SPOORENDONK	_ Assignor/Inventor
Date:	Signature:	Walter HERMANS	Assignor/Inventor
Date:	Signature:	Marco BARAGONA	_ Assignor/Inventor
		Aano ETERCLAVA	

ASSIGNMENT & DECLARATION

Docket No. 2017P02638WOUS

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-Dec-27, having an International Application No. PCT/EP2018/097029,

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, reexaminations, 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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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.

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Date:	Signature:		Assignor/Inventor
Date:	Signature:	% Raba VARGHESE	Assignor/inventor
Date:	Signature:	Wouter Hendrik Cornello SPOORENDONK	Assignor/inventor
Date: / 🌣 / 5 - / // 9 -	Signature:	Walter HERMANS	Assignor/Inventor
Date:	Signature:	Marco BARAGONA	Assignor/inventor
		Anna EZERSKAVA	

Date: 1-1-2019

Date:

hereby sell, and assign, and transfer the enti- having a place of business at High Tech Can	th I/we acknowledge receipt, I/we as a below-named re and exclusive right, title, and interest in the followir npus 5, 5656 AE, Eindhoven, the Netherlands, its suclectively "the Assignee") my/our invention for which a	ng to Koninklijke Philips N.V., ccessors, assigns, and legal
is executed concurrently herewith was filed on ***, having a United States A was filed on 2018-Dec-27, having an Inte	Application No. *** emational Application No. PCT/EP2018/097029,	
therewith, based thereon, or claiming priority divisions, continuations, continuations in-par	all other United States, foreign and international pater therefrom including, but not limited to, any and all pro t, re-examinations, reissues, and extensions thereof, ie, and interest in and to any and all patents granted o	ovisionals, non-provisionals and the right to claim priority
	office officials in the United States and in any and all footness the Assignee(s), for its sole use, and that of its succ	
Upon request at the expense of the Assigned proceedings including patent prosecution act	le the Assignee to enjoy the foregoing right, litle, and e, I/we agree to execute all papers, take all rightful oa lons and infringement actions, and do all other such a ring and maintaining patents on the foregoing invention	ths, testify in all legal acts which may be
I/We certify that I/we have the full right to cor	ivey the above rights.	
	that the above-identified application was made or au nal joint Inventor of a claimed invention in the applica	
I hereby acknowledge that any willful false st imprisonment of not more than five (5) years	atement made in this declaration is punishable under , or both.	18 U.S.C. 1001 by fine or
Date: Signature:	Babs VARGHESE	Assignor/Inventor
Date: Signature:		Assignor/Inventor
Date: Signature:	Wouter Hendrik Cornelis SPOORENDONK	Assignor/Inventor

Walter HERMANS

Marco BARAGONA

Anna EZERSKAYA

Signature:

Signature:

PATENT REEL: 053008 FRAME: 0599

Assignor/Inventor

Assignor/Inventor

hereby sell, and assign, and to having a place of business at	ransfer the entire High Tech Camp	I/we acknowledge receipt, I/we as a below-named A a and exclusive right, fitle, and interest in the following ous 5, 5656 AE, Eindhoven, the Netherlands, its succeptively "the Assignee") my/our invention for which an	g to Koninklijke Philips N.V., cessors, assigns, and legal	
is executed concurrently h	erewith			
was filed on ***, having a	United States Ap	pplication No. ***		
was filed on 2018-Dec-27	, having an Inter	national Application No. PCT/EP2018/097029,		
therewith, based thereon, or o divisions, continuations, contil	laiming priority to nuations-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 , and interest in and to any and all patents granted o	visionals, non-provisionals, and the right to claim priority	
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.				
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		that the above-identified application was made or au af joint Inventor of a claimed invention in the applicati		
I hereby acknowledge that an imprisonment of not more that		tement made in this declaration is punishable under or both.	18 U.S.C. 1001 by fine or	
Date:	Signature:	*	Assignor/Inventor	
Date:	Signature:	Babu VARGHESE	Assignor/Inventor	
Dale:	Signature:	Wouter Headrik Carnelis SPOORENDONK Walter HERMANS	Assignor/Inventor	
Date:	Signature:	Waller HERNANS	Assignor/Inventor	
		COLORADO PARA DEL PARA DEL PARA DEL PROPERTO DE COLORADO DE CONTRA DE COLORADO		

PATENT REEL: 053008 FRAME: 0600

Assignor/inventor

RECORDED: 06/23/2020

Date: 73.01, 2019

Signature: