# 507213481 04/04/2022 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7260331

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
MARTIN JOHN EDWARDS	02/26/2019
FELIPE MAIA MASCULO	02/26/2019
DIONISIO MASSINGO NUNES	11/26/2019
WILHELMUS JOHANNES EVERARDUS EVERS	04/08/2019
STEVEN CHARLES DEANE	02/26/2019
VINCENT JEANNE	03/22/2019
GERBEN KOOIJMAN	08/31/2020

## **RECEIVING PARTY DATA**

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

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16976781

## 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:	(425)	273-2209
Email:	Lilliar	n.Drumheller@philips.com
Correspondent Name: MARY		Y YAWNEY REDMAN
Address Line 1: 1600		SUMMER STREET - 5TH FL
Address Line 2: PHILI		IPS IP&S
Address Line 4:	STAMFORD, CONNECTICUT 06905	
ATTORNEY DOCKET NUMBER	<b>}:</b>	2018P00011WOUS
NAME OF SUBMITTER:		LILLIAN K. DRUMHELLER
SIGNATURE:		/Lillian K. Drumheller/
DATE SIGNED:		04/04/2022

507213481

Total Attachments: 8
source=2018P00011WOUS-Assignment-Declaration#page1.tif
source=2018P00011WOUS-Assignment-Declaration#page2.tif
source=2018P00011WOUS-Assignment-Declaration#page3.tif
source=2018P00011WOUS-Assignment-Declaration#page4.tif
source=2018P00011WOUS-Assignment-Declaration#page5.tif
source=2018P00011WOUS-Assignment-Declaration#page6.tif
source=2018P00011WOUS-Assignment-Declaration#page7.tif
source=2018P00011WOUS-Assignment-Declaration#page8.tif

#### U.S.A. Solw.Joint

## ASSIGNMENT & DECLARATION

For good and valuable consideration of which twe acknowledge receipt, twe as a balow hamed Assignment or Investor hereby sell, and assign, and transfer the entire and exclusive right, the, and interest in the following to Koninklike Philips NV, having a place of business at High Tech Campies 5, 5656 AE. Eindhoven, the Netherlands, its successors, assigns, and legal representatives, including any nominees (collectively "the Assigner") myour invention for which an application.

is executed concurrently here	

🗍 was filed on 🎌 having a United States Application No. 🐃

🗍 was flied on 2019-Feb-28, having an international Application No. PCT/EP2019/064640

and all rights in and to said application, and all other United States, foreign and international patient 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 dam priority thereto, and the entire and exclusive right, life, and interest in and to any and all patients granted on these applications.

We authorize and request that the Parent Office officials in the United States and in any and all breigh countries to save any and all Latters Patent when granted, solely to the Assignments, for its sole user and that of its successions, assigns, and legal representatives.

We will provide my our cooperation to enable the Assignments enough the foregoing right blue, and interest to the bulkest extent Upon request at the expense of the Assignment was agree to execute all papers, take all rightful ouths teachly in all legal proceedings including patient prosecution actions and infragement actions, and do all other such acts which may be tecessary, desirable, or convenient for securing and maintaining patients on the foregoing invention or for perfecting the thereto in the Assignee.

We certify that one 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 part inventor or a claimed inventor in the approxime.

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
	Martin John EDW 480%	
365		
Date: Signature:		
		Assignoninventor
	Felipe Mans MAN(1110)	
Date Signature		
		Assignor/inventor
	Diomsia Massinga NUNES	
Date: Signature		
Date: Signature:		Assignor/inventor
		x on contraction contraction and contraction of the second s
	Wilhelmus Johannes Everardus FVERS	
Date: Signature		
Date: Signature:		Assignonimentor
· · · · · · · · · · · · · · · · · · ·		
	Neven Charles DEANE	
Date: Signature:		
Date: Signature:		a a an
		//////////////////////////////////////
	Vincent JEANNE	

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 2019-Feb-26, having an International Application No. PCT/EP2019/054640,

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:	Signature:		, Assignor/Inventor
Date: <u>26, FEB, 2019</u>	Signature:	Martin John EDWARDS Arlife M. Marcul 9 Felip Maia MASCULO	, Assignor/Inventor
Date:	Signature:		, Assignor/Inventor
Date:	Signature:	Dionisio Massingo NUNES	, Assignor/Inventor
Date:	Signature:	Wilhelmus Johannes Everardus EVERS	, Assignor/Inventor
	បុរម្ភពលនេះទេ.	Steven Charles DEANE	2 x . 0 x .
Date:	Signature:		, Assignor/Inventor
		Vincent JEANNE	

#### U.S.A. Sole/Joint

#### **ASSIGNMENT & DECLARATION**

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 2019-Feb-26, having an International Application No. PCT/EP2019/054640,

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:	Signature:			Assignor/Inventor
Go, for parts a		Martin John EDWARDS		
Date:	Signature:			Assignor/Inventor
	*	Felipe Maia MASCULO	an a	
Date: 26-11-2019	Signature:	Pr-		Assignor/Inventor
an an a sea a <u>abhra an an</u>		Dionisio Massingo NUNES		
Date:	Signature:		,	Assignor/Inventor
B7 94 6 W R		Wilhelmus Johannes Everardus EVERS		nin 19 19 - Angele Marine, and Angele Mari
Date:	Signature:			Assignor/Inventor
		Steven Charles DEANE		
Date:	Signature:			Assignor/Inventor
		Vincent JEANNE		

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
i			a wind an a data strong	

was filed on \*\*\*, having a United States Application No. \*\*\*

was filed on 2019-Feb-26, having an International Application No. PCT/EP2019/054640,

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:	Signature:		Assignor/Inventor
Date:	Signature:	Martin John EDWARDS	Assignor/Inventor
		Felipe Maia MASCULO	-
Date:	Signature:		Assignor/Inventor
Date: <u>8-4-2019</u>	Signature:	Dionisio Massingo NUNES 	Assignor/Inventor
Date:	Signature:		Assignor/Inventor
		Steven Charles DEANE	
Date:	Signature:	9	Assignor/Inventor
		Vincent JEANNE	

#### U.S.A. Sole/Joint

#### ASSIGNMENT & DECLARATION

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 Phillips 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 2019-Feb-26, having an International Application No. PCT/EP2019/054640,

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:	Signature:		, Assignor/Inventor	
	•	Martin John EDWARDS		
Date:	Signature:		, Assignor/Inventor	
		Felipe Maia MASCULO		
Date:	Signature:		_, Assignor/Inventor	
		Dionisio Massingo NUNES	in an	
Date:	Signature:		_, Assignor/Inventor	
- 1. 1. m	•	Wilkelmus Johannes Everardus EVERS	-	
Date: 26/2/19	Signature:	Ann Vance	_, Assignor/Inventor	
<i></i>	••••••••••••••••••••••••••••••••••••••	Steven Charles ØFANE	•	
Date:	Signature:		_, Assignor/Inventor	
		Vincent JEANNE	· · · · · · · · · · · · · · · · · · ·	

U.S.A. Sole/Joint

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 cor	currently herewith
-----------------	--------------------

was filed on \*\*\*, having a United States Application No. \*\*\*

was filed on 2019-Feb-26, having an International Application No. PCT/EP2019/054640,

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:	Signature:	, Assig	nor/Inventor
Date:	Signature:	Martin John EDWARDS , Assig	nor/Inventor
Date:	~ Signature:	Felipe Maia MASCULO	nor/inventor
		Dionisio Massingo NUNES	
Date:	Signature:	Wilhelmus Johannes Everardus EVERS	nor/inventor
Date:	Signature:	Steven Charles DEANE	jnor/inventor
Date: <u>22/03/2017</u>	Signature:	Acelo	jnor/Inventor
		Vincent JEANNE	

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:

was filed on \*\*\*, having a United States Application No. \*\*\*

was filed on 2019-Feb-26, having an International Application No. PCT/EP2019/054640,

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:	Signature:			Assignor/Inventor
Date:	Signature:	Martin John EDWAR		Assignor/Inventor
	g	Felipe Maia MASCUI	L <b>O</b>	/ 100 g
Date:	Signature:		,	Assignor/Inventor
<b>_</b> /	•	Dionisio Massingo NU	JNES	
Date:	Signature:	Wilhelmus Johannes I		Assignor/Inventor
Date:	Signature:		Everardus EVERS	Assignor/Inventor
_ /	-	Steven Charles DEAN	<b>IE</b>	
Date:	Signature:			Assignor/Inventor
Date:	Signature:	Vincent JEANNE	Electronically signed by: Gerben Kooijman Date: Aug 31, 2020 12:56 GMT+2	
Buto.	eignatare.	Gerben KOOIJMAN		_, Assignor/Inventor

**RECORDED: 04/04/2022**