PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ERIC GRANT HALSNE	11/26/2018
BENTE DE LAT	03/07/2019
DAWN BLILIE JORGENSON	11/26/2018
DENNIS E. OCHS	11/26/2018
JENS MUEHLSTEFF	11/26/2018

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:	16496470

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: barbara.kinney@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

ATTORNEY DOCKET NUMBER:	2016P00784WOUS
NAME OF SUBMITTER:	BARBARA KINNEY
SIGNATURE:	/Barbara Kinney/
DATE SIGNED:	09/23/2019

Total Attachments: 5

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PATENT REEL: 050454 FRAME: 0602

hereby sell, and assign, and to having a place of business at	ansfer the entir High Tech Carr	e and exclusive right, title, and intere	a below-named Assignor(s) or Inventor, est in the following to Koninklijke Philips N.\ therlands, its successors, assigns, and lega ntion for which an application:
is executed concurrently h	erewith		
was filed on ***, having a t	Jnited States A	pplication No. ***	
⊠ was filed on 2018-Mar-30,	having an Inte	mational Application No. PCT/EP20	18/058337,
therewith, based thereon, or c divisions, continuations, continuations,	lalming priority luations-in-part	therefrom including, but not limited to re-examinations, reissues, and exte	ternational patent applications associated o, eny and all provisionals, non-provisionals ensions thereof, and the right to claim priori patents granted on these applications.
I/We authorize and request the and all Letters Patent when gr representatives.	at the Patent O anted, solely to	fice officials in the United States and the Assignee(s), for its sole use, an	i in any and all foreign countries to issue ar d that of its successors, assigns, and legal
Upon request at the expense of proceedings including patent p	of the Assignee prosecution acti	, I/we agree to execute all papers, ta ons and infringement actions, and d	g right, title, and interest to the fullest exten ike all rightful oaths, testify in all legal o all other such acts which may be pregoing invention or for perfecting title
I/We certify that I/we have the	full right to con	vey the above rights.	
		that the above-identified application al joint Inventor of a claimed invention	was made or authorized to be made by me on in the application.
I hereby acknowledge that any imprisonment of not more than	v willful false sta ufive (5) years,	stement made in this declaration is p or both.	unishable under 18 U.S.C. 1001 by fine or
11 4		Sem may 1 m	
Date: Nov 26, 2018	Signature:	Eric Grant HALSNE	. Assignor/Inventor
Date:	Signature:	PRINCE PROMISE STANDING	
Date:	Signature:	Bente DE LAT	
Late.	orginature.	Dawn Billie JORGENSON	
Date:	Signature:		, Assignor/Inventor
Date:	Signature:	Dennis E OCHS	Assignarlinventor
Bef 30% to 4	**************************************		CONTRACTOR OF THE CONTRACTOR O

Jens MUEHLSTEFF

PATENT REEL: 050454 FRAME: 0603

hereby sell, and assign, and having a place of business	d transfer the entire at High Tech Cam	n I/we acknowledge receipt, I/we as a below-named / e and exclusive right, title, and interest in the followin pus 5, 5656 AE, Eindhoven, the Netherlands, its suc ectively "the Assignee") my/our invention for which ar	g to Koninklijke Philips N.V., cessors, assigns, and legal
is executed concurrent	y herewith		
was filed on ***, having	a United States A	pplication No. ***	
was filed on 2018-Mar-	30, having an Inter	mational Application No. PCT/EP2018/058337,	
therewith, based thereon, o divisions, continuations, co	r claiming priority t ntinuations-in-part,	Il other United States, foreign and international pater therefrom including, but not limited to, any and all pro re-examinations, reissues, and extensions thereof, a e, and interest in and to any and all patents granted o	visionals, non-provisionals and the right to claim priority
		fice officials in the United States and in any and all for the Assignee(s), for its sole use, and that of its succ	
Upon request at the expens proceedings including pater	se of the Assignee nt prosecution acti	e the Assignee to enjoy the foregoing right, title, and , I/we agree to execute all papers, take all rightful oa ons and infringement actions, and do all other such a ing and maintaining patents on the foregoing inventio	ths, testify in all legal acts which may be
I/We certify that I/we have t	he full right to con	vey the above rights.	
		that the above-identified application was made or au al joint Inventor of a claimed invention in the applicat	
I hereby acknowledge that imprisonment of not more to		atement made in this declaration is punishable under or both.	18 U.S.C. 1001 by fine or
Date:	Signature:		Assignor/Inventor
Date: 3/2/2010	Signature:	Eric Grant HALSNE	Assignor/Inventor
	•	Bente DE LAT	~
Date:	Signature:	Dawn Billie JORGENSON	Assignor/inventor
Date:	Signature:		Assignor/Inventor
Date:	Signature:	Dennis E OCHS	Assignor/inventor
WAY AND A SECOND CONTRACTOR OF THE PROPERTY OF	on a Sign concernor, page		* NOTAL SEED CONDITION OF USE (SPACE)

Jens MUEHLSTEFF

U.S.A. Sole/Joint ASSIGNMENT & DECLARATION

Date:

Signature:

Docket No. 2016P00784WOUS

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-Mar-30, having an International Application No. PCT/EP2018/058337, 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 Eric Grant HALSNE Date: _____ Signature: Assignor/Inventor Bente DE LAT Date: 11/26/15 Signature: Assignor/inventor Dawn Billie JORGENSON Date: _____ Assignor/Inventor Signature: Dennis E OCHS

Jens MUEHLSTEFF

PATENT REEL: 050454 FRAME: 0605

Assignor/Inventor

Date: _____

Signature:

Jens MUEHLSTEFF

hereby sell, and assign, and having a place of business a	transfer the entire t High Tech Cam	I/we acknowledge receipt, I/we as a belo and exclusive right, title, and interest in pus 5, 5656 AE, Eindhoven, the Netherlar actively "the Assignee") my/our invention f	the following to Koninklijke Philips N.V., nds, its successors, assigns, and legal
is executed concurrently	herewith		
was filed on ***, having a	united States Ap	pplication No. ***	
was filed on 2018-Mar-30	0, having an Inter	national Application No. PCT/EP2018/05/	3337 ,
therewith, based thereon, or divisions, continuations, continuations, continuations	claiming priority t tinuations-in-part,	l other United States, foreign and internat herefrom including, but not limited to, any re-examinations, reissues, and extension , and interest in and to any and all patent	and all provisionals, non-provisionals as thereof, and the right to claim priority
		fice officials in the United States and in ar the Assignee(s), for its sole use, and that	
Upon request at the expense proceedings including patent	of the Assignee, prosecution action	the Assignee to enjoy the foregoing righ I/we agree to execute all papers, take all ons and infringement actions, and do all o ng and maintaining patents on the foregoi	rightful oaths, testify in all legal ther such acts which may be
I/We certify that I/we have th	e full right to conv	ey the above rights.	
		that the above-identified application was r al joint Inventor of a claimed invention in t	
I hereby acknowledge that a imprisonment of not more the		tement made in this declaration is punish or both.	able under 18 U.S.C. 1001 by fine or
Date:	Signature:	Fall Cares HAT Chip	, Assignor/Inventor
Date:	Signature:	Eric Grant HALSNE	, Assignor/Inventor
	- T	Bente DE LAT	
Date:	Signature:	Dawn Billic JORGENSON	, Assignor/Inventor
Date: 11/26/18	Signature:	Dawn Billie JO®©ENSON Desnis E OCHS	, Assignor/Inventor

PATENT REEL: 050454 FRAME: 0606

Assignor/Inventor

hereby sell, and assign, and to having a place of business at	ansfer the entir High Tech Carr	h I/we acknowledge receipt, I/we as a below-n e and exclusive right, title, and interest in the f npus 5, 5656 AE, Eindhoven, the Netherlands, ectively "the Assignee") my/our invention for w	ollowing to Koninklijke Philips N.V., its successors, assigns, and legal
is executed concurrently h	erewith		
was filed on ***, having a l	Jnited States A	pplication No. ***	
was filed on 2018-Mar-30,	having an Inle	mational Application No. PCT/EP2018/058337	,
therewith, based thereon, or ci divisions, continuations, contin	laiming priority ruations-in-part	Il other United States, foreign and internationa therefrom including, but not limited to, any and , re-examinations, reissues, and extensions the e, and interest in and to any and all patents gra	l all provisionals, non-provisionals ereof, and the right to claim priority
		ffice officials in the United States and in any ar the Assignee(s), for its sole use, and that of it	
Upon request at the expense or proceedings including patent p	of the Assignee prosecution acti	e the Assignee to enjoy the foregoing right, title , I/we agree to execute all papers, take all righ ons and infringement actions, and do all other ing and maintaining patents on the foregoing in	tful oaths, testify in all legal such acts which may be
I/We certify that I/we have the	full right to con-	vey the above rights.	
		that the above-identified application was made al joint inventor of a claimed invention in the a	
I hereby acknowledge that any imprisonment of not more than		stement made in this declaration is punishable or both.	under 18 U.S.C. 1001 by fine or
Date:	Signature:	Enter Character Child	, Assignor/Inventor
Date:	Signature:	Eric Grant HALSNE	, Assignor/Inventor
Date:	Signature:	Bente DE LAT	, Assignor/Inventor
	-	Dawn Billie JORGENSON	
Date:	Signature:	Deptis E ØCHS	, Assignor/Inventor
Date: <u>26-/1-2018</u>	Signature:	Sem MURIUSTEFF	, Assignor/Inventor
	1	Jacob iser riser Serbe	

PATENT REEL: 050454 FRAME: 0607

RECORDED: 09/23/2019