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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FRANCESCO VICARIO	10/24/2018
ROBERTO BUIZZA	11/20/2018
WILLIAM ANTHONY TRUSCHEL	04/03/2019

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Postal Code:	5656 AE

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16487446

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NAME OF SUBMITTER:	NOEMI CHAPA
SIGNATURE:	/Noemi Chapa/
DATE SIGNED:	08/21/2019

Total Attachments: 3

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PATENT REEL: 050110 FRAME: 0684 505631534

Date: _____

For good and valuable consid- hereby sell, and assign, and to having a place of business at representatives, including any	ransfer the entire and High Tech Campus 5,	exclusive right, title, and into , 5656 AE, Eindhoven, the N	erest in the following letherlands, its succ	to Koninklijke Philips N.V., essors, assigns, and legal
is executed concurrently h	erewith			
was filed on ***, having a l	United States Applicat	tion No. ***		
was filed on 2018-Feb-22	having an Internation	nal Application No. PCT/EP2	2018/054352	
and all rights in and to said ap therewith, based thereon, or c divisions, continuations, contir thereto, and the entire and ex-	laiming priority therefr nuations-in-part, re-ex	rom including, but not limited (aminations, reissues, and e	d to, any and all prov xtensions thereof, a	visionals, non-provisionals nd the right to claim priority
I/We authorize and request th and all Letters Patent when gr representatives.				
I/We will provide my/our coop Upon request at the expense proceedings including patent p necessary, desirable, or conve thereto in the Assignee.	of the Assignee, I/we prosecution actions ar	agree to execute all papers, nd infringement actions, and	, take all rightful oath I do all other such ac	ns, testify in all legal cts which may be
I/We certify that I/we have the	full right to convey the	e above rights.		
As a below-named inventor, I and that I am the original inve				
I hereby acknowledge that an imprisonment of not more that	•		s punishable under 1	18 U.S.C. 1001 by fine or
	:	and the second		
Date: <u>19/24/2018</u>	Signature:	ncesco VICARIO	······································	Assignor/Inventor
Date:	Signature:	icesco vicario		Assignor/Inventor

Roberto BUIZZA

William Anthony TRUSCHEL

Signature:

Assignor/Inventor

Date:	Signature:		, Assignor/Inventor
Date:11/20/2018	Signature:	Roberto Buizza Roberto BUIZZA	, Assignor/Inventor
Uale	oignature:	Francesco VICARIO	, masignormivenior
Date:	Signature:		, Assignor/Inventor
I hereby acknowledge that as imprisonment of not more that	*	itement made in this declaration is punishable un or both.	der 18 U.S.C. 1001 by fine or
		that the above-identified application was made of al joint Inventor of a claimed invention in the appl	
I/We certify that I/we have th	e full right to conv	vey the above rights.	
Upon request at the expense proceedings including patent	of the Assignee, prosecution action	e the Assignee to enjoy the foregoing right, title, a I/we agree to execute all papers, take all rightful ons and infringement actions, and do all other su ng and maintaining patents on the foregoing inve	oaths, testify in all legal ch acts which may be
		fice officials in the United States and in any and a the Assignee(s), for its sole use, and that of its s	
therewith, based thereon, or divisions, continuations, cont	claiming priority t inuations-in-part,	I other United States, foreign and international patherefrom including, but not limited to, any and all re-examinations, reissues, and extensions there, and interest in and to any and all patents grante	provisionals, non-provisionals of, and the right to claim priority
 was filed on ***, having a was filed on 2018-Feb-22	•	oplication No.*** national Application No. PCT/EP2018/054352,	
is executed concurrently	herewith		
hereby sell, and assign, and having a place of business a	transfer the entire t High Tech Cam	n I/we acknowledge receipt, I/we as a below-name and exclusive right, title, and interest in the follopus 5, 5656 AE, Eindhoven, the Netherlands, its actively "the Assignee") my/our invention for which	wing to Koninklijke Philips N.V., successors, assigns, and legal

William Anthony TRUSCHEL

PATENT REEL: 050110 FRAME: 0686

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assign hereby sell, and assign, and transfer the entire and exclusive right, title, and interest in the following to knowing 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 which an application.	Koninklijke Philips N.V., ors, assigns, and legal
 is executed concurrently herewith was filed on ***, having a United States Application No. *** was filed on 2018-Feb-22, having an International Application No. PCT/EP2018/054352, 	
and all rights in and to said application, and all other United States, foreign and international patent application, because thereon, or claiming priority therefrom including, but not limited to, any and all provision divisions, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and the thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on the	nals, non-provisionals ne right to claim priority
I/We authorize and request that the Patent Office officials in the United States and in any and all foreign and all Letters Patent when granted, solely to the Assignee(s), for its sole use, and that of its successor representatives.	•
I/We will provide my/our cooperation to enable the Assignee to enjoy the foregoing right, title, and intered Upon request at the expense of the Assignee, I/we agree to execute all papers, take all rightful oaths, to proceedings including patent prosecution actions and infringement actions, and do all other such acts we necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or full thereto in the Assignee.	estify in all legal hich may be
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 authoriz and that I am the original Inventor or an original joint Inventor of a claimed invention in the application.	ed to be made by me,
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U. imprisonment of not more than five (5) years, or both.	.S.C. 1001 by fine or
Date: Signature: , A Roberto BUIZZA	ssignor/Inventor ssignor/Inventor ssignor/Inventor

William Anthony TRUSCHEL

PATENT REEL: 050110 FRAME: 0687

RECORDED: 08/21/2019