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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ATA				
		Name	Execution Date		
ANAND SRINIVASAN S	RINIVAS	AN NATESAN	10/05/2016		
RAJENDRA SINGH SIS	ODIA		02/23/2018		
CHAITRA BHAT			10/05/2016		
ARAVIND GUNDUMAN	E		10/12/2016		
RECEIVING PARTY DA	ΔΤΔ				
Name:		KLIJKE PHILIPS N.V.			
Street Address:	HIGH TI	ECH CAMPUS 5			
City:	EINDHO	DVEN			
State/Country:	NETHEI	RLANDS			
Postal Code:	5656 AE	1			
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Property Type		Number			
Property Type Application Number:	1	Number 15759264			
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Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NON NAME OF SUBMITTER:	DATA (pe sent to provided; G F 2 UMBER:	(914)495-9540 the e-mail address first; if that is unsucces ; if that is unsuccessful, it will be sent via 914-495-9521 debbie.henn@Philips.com PHILIPS INTELLECTUAL PROPERTY & STA 465 COLUMBUS AVENUE SUITE 340 VALHALLA, NEW YORK 10595 2015P00446WOUS KATHLEEN A. ASHER	US Mail.		
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PATENT REEL: 045172 FRAME: 0629

ASSIGNMENT

For good and valuable consideration, of which l/we acknowledge receipt. I/we as a below-named Assignor(s), hereby sell, and assign, and transfer the entire and exclusive right, fifle, 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 nominces (collectively "the Assignee") my/our invention for which an application:

is executed concurrently herewith

□ was executed by me/us on

was liled on. 27 Sep 2016, having an International Application No. PCT/EF2016/072890,

and all rights in and to said application, and all other United States, foreign and international patent applications associated therewith, based thereon, or elaiming 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 fiveign countries to issue any and all Letters Patent when granted, solely to the Assignme(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, lawe 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 file thereto in the Assignee.

I/We certify that I/we have the full right to convey the above rights.

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	duang	(sign r	name here) ANAND	SRINIVASAN		
Date here "Ass	(sign name 3) signor	(print same here)	(sign name here) ,Assignor	÷	 Aband Sriniyasan SRINIVASAN NATESAN	(sign 1 "Assig
Date here "Ass	(sign name ;) ignor	(prini name here)	(siga name here) ,Assignor		Rajendra Singh SISODIA	(sign 1 Assig
Date here ,Ass	(sign name) ignor	(print name hore)	(sign name here) Assignor		 Chaitra BHAT	(sign 1 Assig
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			Page 1 of 1			

PATENT REEL: 045172 FRAME: 0630

ASSIGNMENT

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), 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 ex	accuted concurrently herewith
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	was	filed on
\boxtimes	was	filed on. 27 Sep 2016, having an International Application No. PCT/EP2016/072890,

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, nonprovisionals 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.

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I/We certify that I/we have the full right to convey the above rights.

	(sign name here)		
Date	(print name here)	Anand Srinivasan SRINIVASAN	, Assignor
		NATESAN	
25/2/18		Reyondre	
Date	(print name here)	Rajendra Singh SISODIA	, Assignor
		Chaitra BHAT	A gelega ar
Date	(print name here)	Comment of the second	, Assignor
Date	(print name here)	Araviad GUNDUMANE	, Assignor
		Page 1 of 1	

PATENT REEL: 045172 FRAME: 0631

ASSIGNMENT

PATENT REEL: 045172 FRAME: 0632

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), 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 executed by me/us on
was filed on.
🔀 was filed on. 27 Sep 2016, having an International Application No. PCT/EP2016/072890,

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, nonprovisionals 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.

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I/We certify that I/we have the full right to convey the above rights.

	(sign name here)		
Date	(print name here)	Anand Srinivasan SRINIVASAN NATESAN	, Assignor
Date	(print name here)	Rajendra Singh SISODIA	, Assignor
<u>05110/2016</u> Date	(print name here) CHAITRA BHAT	Chaitra BHAT	, Assignor
Date	(print name here)	Aravind GUNDUMANE	, Assignor

Page 1 of 1

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was filed on., having a Serial No.

🖾 was filed on. 27 Sep 2016, having an International Application No. PCT/EP2016/072890,

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Date	(print name here)	Anand Srinivasan SRINIVASAN NATESAN	, Assignor
Date	(print name here)	Rajendra Singh SISODIA	, Assignor
Date	(print name here)	Chaitra BHAT	, Assignor
) out 2016 Date	(print name here)	Aravind GUNDUMANE	, Assignor
		Page 1 of 1	

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RECORDED: 03/12/2018