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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYAR	NCE:	ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ				
		Name	Execution Date		
CHI-HUA TUNG			07/13/2015		
SHEKHAR DWIVEDI			01/10/2017		
YANG-MING ZHU			07/10/2015		
JOHN PATRICK COLLIN	١S		01/10/2017		
RECEIVING PARTY DA	ТА				
Name:	KONINK	LIJKE PHILIPS N.V.			
Street Address:	HIGH TE	ECH CAMPUS 5			
City:	EINDHO	VEN			
State/Country:	NETHER	RLANDS			
Postal Code:	5656 AE				
PROPERTY NUMBERS	Total: 1				
PROPERTY NUMBERS Property Type		Number			
		Number 5326159			
Property Type	1				
Property Type Application Number:	1 ATA				
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PATENT REEL: 040984 FRAME: 0837

U.S.A. Sole/Joint

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 executed concurrently herewith						
was executed by me/us on			********			
🗌 was filed on						•‹‹››
🛛 was filed on. 09 Jul 2015, having an Inte	ernational	Application	i No. PC	T/IB201	5/0551	82,

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.

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.

13-J414-2015 (sign name here) 15-14-55				
Date	(print name here)	Chi-Hua TUNG	, Assignor	
Date	(print name here)	Shekhar DWIVEDI	, Assignor	
Date	(print name here)	Vang-Ming ZHU	, Assignor	
Date	(print name here)	John Patrick COLLINS	, Assignor	

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PATENT REEL: 040984 FRAME: 0838

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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, having a Serial No	*******
🔀 was filed on. 09 Jul 2015, having an International Application No. PCT/IB20	

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)	Chi-Hua TUNG	, Assignor
10-3AN 2017		Stellion Duned'	
Date	(print name here)	Shekhar DWIVEDI	, Assignor
	der eine eine eine eine eine eine eine ei		
Date	(print name here)	Vang-Ming ZHU	, Assignor
10- JAN - 2017		John Y. Colling	
Date	(print name here)	John Patrick COLLINS	, Assignor

Page 1 of 1

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	s executed concurrently herewith	
	vas executed by me/us on	
\Box	vas filed on	
\boxtimes	as filed on. 09 Jul 2015, having an International Application No. PCT/IB2015/055182,	

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 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.

	(sign name here)				
Date	(print name here)	Chi-Hua TUNG	, Assignor		
Date (0-July-2015	(print name here) Yang-Hing Zhu	Shekhar DWIVEDI	, Assignor		
Date	(print name here)	Yang-Ming ZHU	, Assignor		
Date	(print name here)	John Patrick COLLINS	, Assignor		

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