11/16/2015 503571322

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FREDERIK JAN DE BRUIJN	03/14/2015
TOMMASO GRITTI	11/16/2015
STEPHANUS JOSEPH JOHANNES NIJSSEN	03/25/2015
LORENZO FERI	03/17/2015
WEI PIEN LEE	03/19/2015
MAARTEN MARINUS JOHANNES WILHELMUS VAN HERPEN	03/19/2015

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:	14891264	

CORRESPONDENCE DATA

Fax Number: (914)332-0615

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.

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Patti.demichele@philips.com Email:

PHILIPS INTELLECTUAL PROPERTY & STANDARD **Correspondent Name:**

P.O. BOX 3001 Address Line 1:

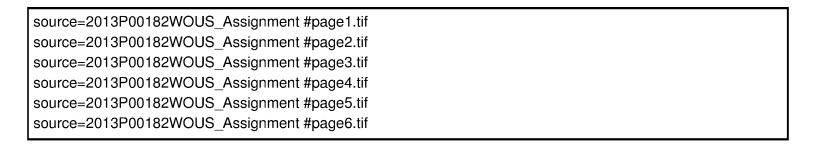
Address Line 4: BRIARCLIFF MANOR, NEW YORK 10510

NAME OF SUBMITTER:DANIEL J. PIOTROWSKISIGNATURE:/Daniel J. Piotrowski/	
SIGNATURE: /Daniel J. Piotrowski/	
DATE SIGNED: 11/16/2015	

Total Attachments: 6

PATENT REEL: 037051 FRAME: 0078

503571322



PATENT REEL: 037051 FRAME: 0079

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
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.
MASSONT (sign name here)

Frederik Jan DE BRUIJN (print name here) Assignor Tommaso GRITTI Date (print name here) «Assignor Date (print name here) Stephanus Joseph Johannes NIJSSEN $_{lpha}$ Assignor Lorenzo FERI Date (print name here) , Assignor Wei Pien LEE Date (print name here) , Assignor Date (print name here) Maarten Marinus Johannes Wilhelmus VAN HERPEN , Assignor

U.S.A. Sole/Joint

ASSIGNMENT

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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, 02 May 2014, having an International Application No. PCT/EP2014/058976,

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.

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

	(sign name here)		
Date 11-16-2015	(print name here)	Frederik Jan DE BRUIJN	. Assignor
Date	(print name here)	Tommaso GRITTI	, Assignor
Date	(print name here)	Stephanus Joseph Johannes NIJSSEN	, Assignor
Date	(print name here)	Lorenzo FERI	. Assignor
Date	(prim name here)	Wei Pien LEE	, Assignor
Date	(print name here)	Maarten Marinus Johannes Wilhelmus VAN HERPEN	. Assignor

Page 1 of 1

PATENT REEL: 037051 FRAME: 0081 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:

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	was	executed	l by me us on .	****************	********		
	was	filed on.		, having a	Serial No		
X	was	filed on.	02 May 2014.	having an International	Application No.	PCT/EP2014/05897	6.

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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)	Frederik Jan DE BRUIJN	Assignor
Date 25-3-15	(print name here)	Tommaso GRITTI	, Assignor
Date	(print name here)	Stephanus Joseph Johannes NIJSSEN	, Assignor —
Date	(print name here)	Lorenzo FERI	Assignor
Date	(print name here)	Wei Pien LEE	, Assignor
Date	(print name here)	Masrten Marinus Johannes Wilhelmus VAN HER	PEN Assignor

U.S.A. Sole/Joint

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☐ is executed concurrently herewith ☐ was executed by me/us on, having a Serial No. ☐ was filed on. 02 May 2014, having an International Application No. PCT/EP2014/058976,
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.
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(sign name here)

	(sign name here)		
Date	(print name here)	Frederik Jan DE BRUIJN	, Assignor
Date	(print name here)	Tommase CRITTI	, Assignor
Date 17 03 2015	(print name here)	Stephanus Joseph Johannes NIJSSEN	, Assignor
Date	(print name here)	Lorenzò FENI	, Assignor
Date	(print name here)	Wei Fien LEE	, Assignor
Date	(print name here)	Maarten Marinus Johannes Wilhelmus VAN HERPEN	, Assignor

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	s executed concurrently herewith
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	vas filed on, having a Serial No
XI.	vas filed on, 02 May 2014, having an International Application No. PCT/EP2014/058976,

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.

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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)	Frederik Jan DE BRUIJN	Assignor
Date	(print name here)	Tommaso GRITTI	, Assignor
Date	(print name here)	Stephanus Joseph Johannes NIJSSEN	, Assignor
Date	(print name here)	Lorenzo FERI	, Assignor
Date / 2-3-2019	(print name here)	Wei Pien LEE	, Assignor
Date	(print name here)	Maarten Marinus Johannes Wilhelmus VAN HERPEN	, Assignor

•	•	of which I/we acknowledge receipt, I/we as a below-na exclusive right, title, and interest in the following to K	
a place of b	usiness at High Tech Camp	us 5,5656 AE, Eindhoven, the Netherlands, its succes	sors, assigns, and legal
representati	ves, including any nominee	es (collectively "the Assignee") my/our invention for v	which an application:
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was filed	d on. 02 May 2014 , having	an International Application No. PCT/EP2014/0589	76,
and all right	s in and to said application	, and all other United States, foreign and international	patent applications associated
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provisionals	divisions, continuations, c	ontinuations-in-part, re-examinations, reissues, and e	xtensions thereof, and the right to
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I/We will p	rovide my/our cooperation	to enable the Assignee to enjoy the foregoing right, tit	tle, and interest to the fullest
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		secution actions and infringement actions, and do all o	_
_		securing and maintaining patents on the foregoing in	vention or for perfecting title
thereto in th	ie Assignee.		
I/We certify	that I/we have the full rigi	nt to convey the above rights.	
	(sign name here)		
Date	(print name here)	Frederik Jan DE BRUUN	, Assignor
Date	(print name here)	Tommaso GRITTI	, Assignor
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Date	(print name here)	Stephanus Joseph Johannes NLISSEN	, Assignor
Date	(print name here)	Lorenzo FERI	, Assignor
Date	(print name here)	Wei Pien LEE	Assignor

Page 1 of 1

Maarten Marinus Johannes Wilhelmus VAN HERPEN

PATENT REEL: 037051 FRAME: 0085

, Assignor

(print name here)