

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3903109

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
JASPER DE VREEDE	12/08/2014
FRANCISCUS JOHANNES GERARDUS HAKKENS	12/08/2014
KAREL JOHANNES ADRIANUS VAN DEN AKER	12/08/2014
EGBERTUS REINIER JACOBS	12/08/2014
MART KORNELIS-JAN TE VELDE	12/08/2014
CHRISTOPH DOBRUSSKIN	12/20/2014
GERBEN KOOIJMAN	12/08/2014
KLAAS JACOB LULOFS	01/05/2015
FREDERIK JAN DE BRUIJN	12/09/2014
JOHANNES WILHELMUS WEEKAMP	12/09/2014
SUSANNE MAAIKE VALSTER	12/11/2014

**RECEIVING PARTY DATA**

<b>Name:</b>	KONINKLIJKE PHILIPS N.V.
<b>Street Address:</b>	HIGH TECH CAMPUS 5
<b>City:</b>	EINDHOVEN
<b>State/Country:</b>	NETHERLANDS
<b>Postal Code:</b>	5656 AE

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	15101960

**CORRESPONDENCE DATA****Fax Number:** (914)495-9540*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:** debbie.henn@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

PATENT

<b>ATTORNEY DOCKET NUMBER:</b>	2013P01401WOUS
<b>NAME OF SUBMITTER:</b>	KATHLEEN A. ASHER
<b>SIGNATURE:</b>	/KATHLEEN A. ASHER/
<b>DATE SIGNED:</b>	06/06/2016

**Total Attachments: 22**

source=2013P01401WOUS\_Assignment#page1.tif  
source=2013P01401WOUS\_Assignment#page2.tif  
source=2013P01401WOUS\_Assignment#page3.tif  
source=2013P01401WOUS\_Assignment#page4.tif  
source=2013P01401WOUS\_Assignment#page5.tif  
source=2013P01401WOUS\_Assignment#page6.tif  
source=2013P01401WOUS\_Assignment#page7.tif  
source=2013P01401WOUS\_Assignment#page8.tif  
source=2013P01401WOUS\_Assignment#page9.tif  
source=2013P01401WOUS\_Assignment#page10.tif  
source=2013P01401WOUS\_Assignment#page11.tif  
source=2013P01401WOUS\_Assignment#page12.tif  
source=2013P01401WOUS\_Assignment#page13.tif  
source=2013P01401WOUS\_Assignment#page14.tif  
source=2013P01401WOUS\_Assignment#page15.tif  
source=2013P01401WOUS\_Assignment#page16.tif  
source=2013P01401WOUS\_Assignment#page17.tif  
source=2013P01401WOUS\_Assignment#page18.tif  
source=2013P01401WOUS\_Assignment#page19.tif  
source=2013P01401WOUS\_Assignment#page20.tif  
source=2013P01401WOUS\_Assignment#page21.tif  
source=2013P01401WOUS\_Assignment#page22.tif

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:

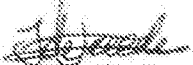
- is executed concurrently herewith
- was executed by me/us on .....
- was filed on ....., having a Serial No. ....
- was filed on 05 Dec 2014, having an International Application No. PCT/EP2014/076681,

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.

08-12-2014	(sign name here)		
Date	(print name here)	Jasper DE VREEDE	, Assignor
.....	.....	.....	.....
Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	, Assignor
.....	.....	.....	.....
Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	, Assignor
.....	.....	.....	.....
Date	(print name here)	Egbertus Reinier JACOBS	, Assignor
.....	.....	.....	.....
Date	(print name here)	Mart Kornelis-Jan TE VELDE	, Assignor
.....	.....	.....	.....
Date	(print name here)	Christoph DOBRUSSKIN	, Assignor

..... Date	..... (print name here)	..... Gerben KOOLJMAN	..... , Assignor
..... Date	..... (print name here)	..... Klaas Jacob LULOFS	..... , Assignor
..... Date	..... (print name here)	..... Frederik Jan DE BRUIJN	..... , Assignor
..... Date	..... (print name here)	..... Johannes Wilhelmus WEEKAMP	..... , Assignor
..... Date	..... (print name here)	..... Susanne Maaike VALSTER	..... , Assignor

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. 05 Dec 2014, having an International Application No. PCT/EP2014/076681,

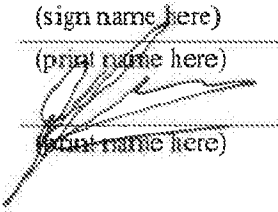
and all rights in and to said application, and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, non-provisionals divisions, continuations, continuations-in-part, 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.

\*

..... Date	(sign name here) ..... (print name here)	Jasper DE VREEDE	..... , Assignor
..... Date	 ..... (print name here)	Franciscus Johannes Gerardus HAKKENS	..... , Assignor
..... Date	..... (print name here)	Karel Johannes Adrianus VAN DEN AKER	..... , Assignor
..... Date	..... (print name here)	Egbertus Reinier JACOBS	..... , Assignor
..... Date	..... (print name here)	Mart Kornelis-Jan TE VELDE	..... , Assignor
..... Date	..... (print name here)	Christoph DOBRUSSKIN	..... , Assignor

..... Date	..... (print name here)	..... Gerben KOOLJMAN	..... , Assignor
..... Date	..... (print name here)	..... Klaas Jacob LULOFS	..... , Assignor
..... Date	..... (print name here)	..... Frederik Jan DE BRUIJN	..... , Assignor
..... Date	..... (print name here)	..... Johannes Wilhelmus WEEKAMP	..... , Assignor
..... Date	..... (print name here)	..... Susanne Maaike VALSTER	..... , Assignor

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. 05 Dec 2014, having an International Application No. PCT/EP2014/076681,

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.

..... Date	(sign name here) ..... (print name here)	Jasper DE VREEDE	..... , Assignor
..... Date	(print name here) .....	Franciscus Johannes Gerardus HAKKENS	..... , Assignor
2014, dec 8 Date	 (print name here)	Karel Johannes Adrianus VAN DEN AKER	Karel Aker ..... , Assignor
..... Date	(print name here) .....	Egbertus Reinier JACOBS	..... , Assignor
..... Date	(print name here) .....	Mart Kornelis-Jan TE VELDE	..... , Assignor
..... Date	(print name here) .....	Christoph DOBRUSSKIN	..... , Assignor

..... Date	..... (print name here)	..... Gerben KOOLJMAN	..... , Assignor
..... Date	..... (print name here)	..... Klaas Jacob LULOFS	..... , Assignor
..... Date	..... (print name here)	..... Frederik Jan DE BRUIJN	..... , Assignor
..... Date	..... (print name here)	..... Johannes Wilhelmus WEEKAMP	..... , Assignor
..... Date	..... (print name here)	..... Susanne Maaike VALSTER	..... , Assignor



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:

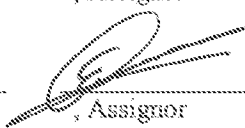
- is executed concurrently herewith
- was executed by me/us on .....
- was filed on. ...., having a Serial No. ....
- was filed on. 05 Dec 2014, having an International Application No. PCT/EP2014/076681,

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.

..... Date	(sign name here) ..... (print name here)	Jasper DE VREEDE	..... , Assignor
..... Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	..... , Assignor
..... Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	..... , Assignor
Dec. 8 <sup>th</sup> 2014 Date	Bas Jacobs (print name here)	Egbertus Reinier JACOBS	 , Assignor
..... Date	(print name here)	Mart Kornelis-Jan TE VELDE	..... , Assignor
..... Date	(print name here)	Christoph DOBRUSSKIN	..... , Assignor

----- Date	----- (print name here)	----- Gerben KOOLJMAN	----- , Assignor
----- Date	----- (print name here)	----- Klaas Jacob LULOFS	----- , Assignor
----- Date	----- (print name here)	----- Frederik Jan DE BRULN	----- , Assignor
----- Date	----- (print name here)	----- Johannes Wilhelmus WEEKAMP	----- , Assignor
----- Date	----- (print name here)	----- Susanne Maaïke VALSTER	----- , Assignor

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. 05 Dec 2014, having an International Application No. PCT/EP2014/076681,

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.

..... Date	(sign name here) ..... (print name here)	Jasper DE VREEDE	..... , Assignor
..... Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	..... , Assignor
..... Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	..... , Assignor
..... Date	(print name here)	Egbertus Reinier JACOBS	..... , Assignor
8-DEC-2014 Date	(print name here)	Mart Kornelis-Jan TE VELDE	..... , Assignor
..... Date	(print name here)	Christoph DOBRUSSKIN	..... , Assignor

..... Date	..... (print name here)	..... Gerben KOOIJMAN	..... , Assignor
..... Date	..... (print name here)	..... Klaas Jacob LULOFS	..... , Assignor
..... Date	..... (print name here)	..... Frederik Jan DE BRUIJN	..... , Assignor
..... Date	..... (print name here)	..... Johannes Wilhelmus WEEKAMP	..... , Assignor
..... Date	..... (print name here)	..... Susanne Maaïke VALSTER	..... , Assignor

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:

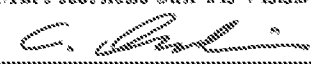
- is executed concurrently herewith
- was executed by me/us on .....
- was filed on ....., having a Serial No. ....
- was filed on. 05 Dec 2014, having an International Application No. PCT/EP2014/076681,

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.

_____	(sign name here)	_____	_____
Date	(print name here)	Jasper DE VREEDE	, Assignor
_____	(print name here)	_____	_____
Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	, Assignor
_____	(print name here)	_____	_____
Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	, Assignor
_____	(print name here)	_____	_____
Date	(print name here)	Egbertus Retzier JACOBS	, Assignor
_____	(print name here)	_____	_____
Date	(print name here)	Mart Kornelis-Jan TE VELDE	, Assignor
20-12-2014	DOBROSSKIN		_____
Date	(print name here)	Christoph DOBRUSSKIN	, Assignor

..... Date	..... (print name here)	..... Gerben KOOLJMAN	..... , Assignor
..... Date	..... (print name here)	..... Klaas Jacob LULOFS	..... , Assignor
..... Date	..... (print name here)	..... Frederik Jan DE BRUIJN	..... , Assignor
..... Date	..... (print name here)	..... Johannes Wilhelmus WEEKAMP	..... , Assignor
..... Date	..... (print name here)	..... Susanne Maaike VALSTER	..... , Assignor

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. 05 Dec 2014, having an International Application No. PCT/EP2014/076681,

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.

..... Date	(sign name here) ..... (print name here)	Jasper DE VREEDE	..... , Assignor
..... Date	(print name here)	Franciscus Johannes Gerardus RAKKENS	..... , Assignor
..... Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	..... , Assignor
..... Date	(print name here)	Egbertus Reinier JACOBS	..... , Assignor
..... Date	(print name here)	Mart Kornelis-Jan TE VELDE	..... , Assignor
..... Date	(print name here)	Christoph DOBRUSSKIN	..... , Assignor

08-dec-2014  
Date

\_\_\_\_\_  
(print name here)

  
Gerben KOOLJMAN

\_\_\_\_\_  
, Assignor

\_\_\_\_\_  
Date

\_\_\_\_\_  
(print name here)

\_\_\_\_\_  
Klass Jacob LULOFS

\_\_\_\_\_  
, Assignor

\_\_\_\_\_  
Date

\_\_\_\_\_  
(print name here)

\_\_\_\_\_  
Frederik Jsn DE BRUIJN

\_\_\_\_\_  
, Assignor

\_\_\_\_\_  
Date

\_\_\_\_\_  
(print name here)

\_\_\_\_\_  
Johannes Wilhelmus WEEKAMP

\_\_\_\_\_  
, Assignor

\_\_\_\_\_  
Date

\_\_\_\_\_  
(print name here)

\_\_\_\_\_  
Susanne Maaike VALSTER

\_\_\_\_\_  
, Assignor



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. 05 Dec 2014, having an International Application No. PCT/EP2014/076681,

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.

..... Date	(sign name here) ..... (print name here)	Jasper DE VREEDE	..... , Assignor
..... Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	..... , Assignor
..... Date	(print name here)	Karel Johannes Adriaanus VAN DEN AKER	..... , Assignor
..... Date	(print name here)	Egbertus Reinier JACOBS	..... , Assignor
..... Date	(print name here)	Mart Kornelis-Jan TE VELDE	..... , Assignor
..... Date	(print name here)	Christoph DORRUSKIN	..... , Assignor

Date	(print name here)	Gerben KOOLJMAN	, Assignor
5-01-2015	(print name here)	<del>Klaas Jacob LULOFS</del>	, Assignor
Date	(print name here)	Frederik Jan DE BRUIJN	, Assignor
Date	(print name here)	Johannes Wilhelmus WEEKAMP	, Assignor
Date	(print name here)	Susanne Maaïke VALSTER	, Assignor

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. 05 Dec 2014, having an International Application No. PCT/EP2014/076681,

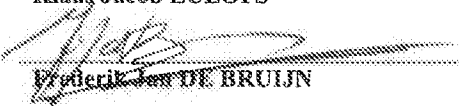
and all rights in and to said application, and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, non-provisionals divisions, continuations, continuations-in-part, 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.

..... Date	(sign name here) ..... (print name here)	Jasper DE VREEDE	..... , Assignor
..... Date	(print name here)	Franciscus Johannes Gerardus RAKKENS	..... , Assignor
..... Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	..... , Assignor
..... Date	(print name here)	Egbertus Reinier JACOBS	..... , Assignor
..... Date	(print name here)	Mart Kornelis-Jan TE VELDE	..... , Assignor
..... Date	(print name here)	Christoph DOBRUSSKIN	..... , Assignor

Date	(print name here)	Gerben KOOLJMAN	, Assignor
Date	(print name here)	Klaas Jacob LULOFS	, Assignor
9-12-2014 Date	(print name here)	 Frederik Jan DE BRUIJN	, Assignor
Date	(print name here)	Johannes Wilhelmus WEEKAMP	, Assignor
Date	(print name here)	Susanne Maaïke VALSTER	, Assignor

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. 05 Dec 2014, having an International Application No. PCT/EP2014/076681,

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.

..... Date	(sign name here) ..... (print name here)	Jasper DE VREEDE	..... , Assignor
..... Date	(print name here)	Franciscus Johannes Gerardus RAKKENS	..... , Assignor
..... Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	..... , Assignor
..... Date	(print name here)	Egbertus Reinier JACOBS	..... , Assignor
..... Date	(print name here)	Mart Kornelis-Jan TE VELDE	..... , Assignor
..... Date	(print name here)	Christoph DOBRUSSKIN	..... , Assignor

Date	(print name here)	Gerben KOOLJMAN	, Assignor
Date	(print name here)	Klaas Jacob LULOFS	, Assignor
Date	(print name here)	Frederik Jan DE BRUIJN	, Assignor
9-12-2014		Johannes Wilhelmus WEEKAMP	, Assignor
Date	(print name here)	Susanne Maaikje VALSTER	, Assignor

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. 05 Dec 2014, having an International Application No. PCT/EP2014/076681,

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.

..... Date	(sign name here) ..... (print name here)	Jasper DE VREEDE	..... , Assignor
..... Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	..... , Assignor
..... Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	..... , Assignor
..... Date	(print name here)	Egbertus Reinier JACOBS	..... , Assignor
..... Date	(print name here)	Mart Kornelis-Jan TE VELDE	..... , Assignor
..... Date	(print name here)	Christoph DOBRUSSKIN	..... , Assignor

Date	(print name here)	Gerben KOOLJMAN	, Assignor
Date	(print name here)	Klaas Jacob LULOFS	, Assignor
Date	(print name here)	Frederik Jan DE BRUIJN	, Assignor
Date	(print name here)	Johannes Wilhelmus WEEKAMP	, Assignor
11 DEC 2014	S. Valster		
Date	(print name here)	Susanne Maaïke VALSTER	, Assignor