504209095 02/02/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| BABU VARGHESE | 01/16/2017 |
| RIEKO VERHAGEN | 01/12/2017 |
| JONATHAN ALAMBRA PALERO | 05/08/2014 |
| MARTIN JURNA | 04/24/2014 |
| MARGARET RUTH HORTON | 01/12/2017 |

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: | 14786208 |

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: 914-495-9521

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

| Total Attackments, 5 | |
|-------------------------|---------------------|
| DATE SIGNED: | 02/02/2017 |
| SIGNATURE: | /KATHLEEN A. ASHER/ |
| NAME OF SUBMITTER: | KATHLEEN A. ASHER |
| ATTORNEY DOCKET NUMBER: | 2012P02139WOUS |

Total Attachments: 5

PATENT REEL: 041154 FRAME: 0901

EPAS ID: PAT4255772

504209095

source=2012P02139WOUS_Assignment#page1.tif source=2012P02139WOUS_Assignment#page2.tif source=2012P02139WOUS_Assignment#page3.tif source=2012P02139WOUS_Assignment#page4.tif source=2012P02139WOUS_Assignment#page5.tif

> PATENT REEL: 041154 FRAME: 0902

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 Netherlanda, 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.
Abaving a Serial No.
was filed on. 24 Apr 2014, having an International Application No. PCT/EP2014/058336,
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.

| W.O: | Marie here) | | |
|------|------------------------------------|-------------------------|------------|
| Date | (sign name here) (print name here) | Babu VARCHESE | , Assignor |
| Date | (print name here) | Ricko VERNAGEN | , Assignor |
| Date | (print name here) | Jonathan Alamina PALERO | , Assignor |
| Date | (print name here) | Martin JURNA | , Assignor |
| Date | (print name here) | Margaret Ruth HORTON | , Assignor |

Page 1 of 1

| and assign, and tran | isfer the entire and exclusive ri | ve acknowledge receipt, I/we as a below- ight, title, and interest in the following to | Koninklijke Philips N.V., having |
|--|---|--|---|
| • | = | AE, Eindhoven, the Netherlands, its succ rely "the Assignee") my/our invention fo | |
| is executed conc | | | |
| | / me/us on | | |
| | | ving a Serial No | |
| was filed on. 24 | Apr 2014, having an Internat | ional Application No. PCT/EP2014/058. | 335, |
| - | | her United States, foreign and internation refrom including, but not limited to, any a | |
| | | ns-in-part, re-examinations, reissues, and | |
| • | | e right, title, and interest in and to any an | |
| | Patent when granted, solely to | officials in the United States and in any a the Assignee(s), for its sole use, and that | - |
| extent. Upon reque legal proceedings in | est at the expense of the Assign neluding patent prosecution ac e, or convenient for securing a | ne Assignee to enjoy the foregoing right, nee, I'we agree to execute all papers, take tions and infringement actions, and do all and maintaining patents on the foregoing it | all rightful oaths, testify in all other such acts which may be |
| I/We certify that I/v | we have the full right to conve | y the above rights. | |
| | (sign name here) | | |
| Date 12 ~0 1 ~ 2011 | (print name here) | Babu VARGHESE | , Assignor |
| Date | (print name here) | Ricko VERHAGEN | , Assignor |
| Date | (print name here) | Jonathan Alambra PALERO | 3 Assignor |
| Date | (print name here) | Martin JURNA | s Assignor |
| Date | (print name here) | Margaret Ruth HORTON | , Assignor |

Page 1 of 1

U.S.A. Sole/foint ASSICIMENT Docket No. 2012P02139WOUS

For good and valuable consideration, of which live acknowledge receipt. I'we as a below-named Assignor(6), 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 Righ Tech Campus 5,5656 AE, Eindhoven, the Nathorlands, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee") my/our invention for which an application:

| 🔀 was filed on. 14 Apr 2014, having an International Application No. PCT/EZ2014/058336, | 📋 was filed on | was executed by me/us on | ☐ is executed concurrently herewith | |
|---|----------------|--------------------------|-------------------------------------|--|
|---|----------------|--------------------------|-------------------------------------|--|

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

IWe 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, destrable, 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 | Date | Date 9 . Irviy 2.014 Date | Date |
|----------------------|-------------------|---|------------------------------------|
| (print name here) | sprint name here) | (print name here) I. Podezo (print name here) | (sign name here) (print name here) |
| Margaret Rath BORTON | Martin FURNA | RIPHO VERHACIEN STORMAN JOHANNA ASEMON PALERO | Babu VARCHESE |
| , Assignor | , Assignor | . Assignor , Assignor | , Assigner |

Page 1 of 1

Date

| and assign, and transfe a place of business at i | r the entire and exclusive ri High Tech Campus 5,5656 . | re acknowledge receipt, I/we as a below-night, title, and interest in the following to I AE, Eindhoven, the Netherlands, its succeively "the Assignee") my/our invention for | Koninklijke Philips N.V., having ssors, assigns, and legal |
|---|---|--|---|
| is executed concurr | ently herewith | | |
| | e/us on | | |
| | | ving a Serial No | |
| | | ional Application No. PCT/EP2014/0583. | |
| and all rights in and to | said application, and all of | her United States, foreign and internationa | l patent applications associated |
| therewith, based thereo | on, or claiming priority ther | efrom including, but not limited to, any a | nd all provisionals, non- |
| • | | ns-in-part, re-examinations, reissues, and e e right, title, and interest in and to any and | |
| | • | officials in the United States and in any ar the Assignee(s), for its sole use, and that | |
| extent. Upon request a legal proceedings incli | at the expense of the Assign uding patent prosecution ac or convenient for securing a | he Assignee to enjoy the foregoing right, to nee, I/we agree to execute all papers, take tions and infringement actions, and do all and maintaining patents on the foregoing in | all rightful oaths, testify in all other such acts which may be |
| I/We certify that I/we | have the full right to conve | y the above rights. | |
| 24/4/2014 | (sign name here) | | |
| Date | (print name here) | Babu VARGHESE | , Assignor |
| Date | (print name here) | Rieko VERHAGEN | , Assignor |
| Date | (print name here) | Jonathan Alambra PALERG | , Assignor |
| <u>25/5/2015</u> Date | | No. 10 North Additional | A values are |
| Date | (print name here) | Martig NRSA | , Assignor |

Page 1 of 1

(print name here)

Margaret Ruth HORTON

, Assignor

| and assign, and transfer a place of business at Hi | the entire and exclusive rig gh Tech Campus 5,5656 A | = , | |
|---|--|--|--|
| was filed on | us on, hav | ing a Serial No | |
| therewith, based thereon provisionals divisions, c | , or claiming priority there ontinuation | from including, but not limited to, | and extensions thereof, and the right to |
| | | officials in the United States and in a the Assignee(s), for its sole use, and | any and all foreign countries to issue that of its successors, assigns, and |
| extent. Upon request at legal proceedings includ | the expense of the Assign ling patent prosecution act | e Assignee to enjoy the foregoing ree, I we agree to execute all papers, ions and infringement actions, and od maintaining patents on the forego | take all rightful oaths, testify in all do all other such acts which may be |
| I'We certify that I'we ha | ave the full right to convey | the above rights. | |
| | (sign name here) | | |
| Date | (print name here) | Babu VARGHESE | , Assignor |
| Date | (print name here) | Rieko VERHAGEN | |

Page 1 of 1

Martin JURNA

Jonathan Alambra PALERO

Margaret Ruth HORTON

(print name here)

(print name here)

M. Horton (print name here) . Assignor

, Assignor

«Assignor

Date

Date

1200

Date