503246544 04/01/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3293162

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------------|----------------|
| KAY NEHRKE | 09/13/2013 |
| PETER BOERNERT | 09/13/2013 |
| JOHAN MICHIEL DEN HARDER | 09/11/2013 |
| THOMAS HENDRIK ROZIJN | 09/13/2013 |

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: | 14432931 |

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.

Phone: 914-945-6000

Email: patti.demichele@philips.com

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

Address Line 1: P.O. BOX 3001

Address Line 4: BRIARCLIFF MANOR, NEW YORK 10510

| ATTORNEY DOCKET NUMBER: | 2012P00502WOUS |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | BENJAMIN Y. HAN |
| SIGNATURE: | /Benjamin Y. Han/ |
| DATE SIGNED: | 04/01/2015 |

Total Attachments: 3

source=2012P00502WOUS_ASSIGNMENT#page1.tif source=2012P00502WOUS_ASSIGNMENT#page2.tif source=2012P00502WOUS ASSIGNMENT#page3.tif

PATENT REEL: 035313 FRAME: 0535 503246544

Date

| - | | ve acknowledge receipt, I/we as a below-na | ** |
|---|------------------------------|--|---------------------------------------|
| and assign, and transfer | the entire and exclusive r | ight, title, and interest in the following to K | oninklijke Philips N.V., having |
| | | AE, Eindhoven, the Netherlands, its succes | · · · · · · · · · · · · · · · · · · · |
| representatives, includi | ng any nominees (collecti | vely "the Assignee") my/our invention for t | which an application: |
| is executed concurr | ently herewith | | |
| was executed by me | us on | ******************************** | |
| was filed on | , ha | ving a Serial No | ************** |
| was filed on. 11 Sep | 2013, having an Internati | onal Application No. PCT/IB2013/058447 | n n |
| and all rights in and to | said application, and all of | her United States, foreign and international | patent applications associated |
| therewith, based thereo | n, or claiming priority the | refrom including, but not limited to, any and | d all provisionals, non- |
| provisionals divisions, | continuations, continuation | ns-in-part, re-examinations, reissues, and ex | densions thereof, and the right to |
| claim priority thereto, a applications. | nd the entire and exclusiv | e right, title, and interest in and to any and s | all patents granted on these |
| I/We authorize and requ | uest that the Patent Office | officials in the United States and in any and | d all foreign countries to issue |
| | nt when granted, solely to | the Assignee(s), for its sole use, and that o | f its successors, assigns, and |
| legal representatives. | | | |
| I/We will provide my/o | ur cooperation to enable th | he Assignee to enjoy the foregoing right, tit | le, and interest to the fullest |
| extent. Upon request at | the expense of the Assign | nee, I/we agree to execute all papers, take a | ll rightful oaths, testify in all |
| legal proceedings inclu- | ding patent prosecution ac | tions and infringement actions, and do all o | ther such acts which may be |
| necessary, desirable, or | convenient for securing a | nd maintaining patents on the foregoing inv | rention or for perfecting title |
| thereto in the Assignee. | | | |
| I/We certify that I/we h | ave the full right to conve | y the above rights. | |
| 13-527-2013 | (sign name here) | L.CU. | |
| Date | (print name here) | Kay NEHRKE | , Assignor |
| 13-5-11 2013 | | 7.4 7. J | |
| Date | (print name here) | Peter BOERNERT | , Assignor |
| Date | (print name here) | Johan Michiel DEN HARDER | , Assignor |

Page 1 of 1

(print name here)

Thomas Hendrik ROZIJN

, Assignor

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), hereby sell,

| | | we acknowledge receipt, I we as a below- | 4 (), |
|----------------------------|---------------------------------------|---|---|
| | | ight, title, and interest in the following to AE, Eindhoven, the Netherlands, its succe | |
| | | vely "the Assignee") my/our invention for | |
| | , , , , , , , , , , , , , , , , , , , | y and y and y and y and an annual you | White the special control of the second |
| is executed co | ncurrently herewith | | |
| | by me/us on | | |
| | | ving a Serial No. | |
| was filed on. 1 | 11 Sep 2013, having an Internat | ional Application No. PCT/IB2013/05844 | 17, |
| and all rights in ar | nd to said application, and all ot | her United States, foreign and internation | al patent applications associated |
| therewith, based t | hereon, or claiming priority the | refrom including, but not limited to, any a | nd all provisionals, non- |
| provisionals divis | ions, continuations, continuation | ns-in-part, re-examinations, reissues, and | extensions thereof, and the right to |
| | reto, and the entire and exclusiv | e right, title, and interest in and to any and | l all patents granted on these |
| applications. | | | |
| I/We suthorize an | id request that the Patent Office | officials in the United States and in any a | nd all forsion countries to icone |
| | | the Assignee(s), for its sole use, and that | = |
| legal representativ | - | the runghous of the sone the sine | or no mocomo, nongno, and |
| | | | |
| I/We will provide | my/our cooperation to enable t | he Assignee to enjoy the foregoing right, | title, and interest to the fullest |
| | | nee, I/we agree to execute all papers, take | |
| legal proceedings | including patent prosecution ac | tions and infringement actions, and do all | other such acts which may be |
| necessary, desirab | le, or convenient for securing a | nd maintaining patents on the foregoing is | ivention or for perfecting title |
| thereto in the Assi | ignee | | |
| | | | |
| I/We certify that I | /we have the full right to conve | y the above rights. | |
| | | | |
| | (sign name here) | | |
| Date | (print name here) | Kay NEHRKE | , Assignor |
| | (Printer) | | , I resigned |
| Date | (print name here) | Peter BOERNERT | Assignor |
| 11 Sept 2013 | • | | |
| / <u>Sept 20/3</u> Date | (print name here) | Johan Michiel DEN HARDER | , Assignor |
| Date | (print name here) | Thomas Hendrik ROZIJN | . Assignor |
| | | | |

Page 1 of 1

PATENT REEL: 035313 FRAME: 0537 to

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), hereby sell,

| and assign, and tra | insfer the entire and exclusive | right, title, and interest in the following to l | Koninklijke Philips N.V., having |
|----------------------|----------------------------------|--|-----------------------------------|
| a place of business | s at High Tech Campus 5,5656 | AE, Eindhoven, the Netherlands, its succe | ssors, assigns, and legal |
| representatives, in | cluding any nominees (collecti | ively "the Assignee") my/our invention for | which an application: |
| ,,,,, | | | |
| | currently herewith | | |
| | y me'us on | | |
| | | iving a Serial No | |
| was filed on. I | I Sep 2013, having an Internat | tional Application No. PCT/IB2013/05844 | 7, |
| and all rights in an | d to said application, and all o | ther United States, foreign and internations | hateiscese ensitesilane treta li |
| | | refrom including, but not limited to, any a | |
| | | ms-in-part, re-examinations, reissues, and e | |
| | | e right, title, and interest in and to any and | |
| applications. | , | | Aut Limanius Prancian 257 05500 |
| 1/85/ | Samuel Aland Roll of Control | gross so so the sound of | 1.16.0 |
| | | officials in the United States and in any ar | |
| | | the Assignee(s), for its sole use, and that | of its successors, assigns, and |
| legal representative | es. | | |
| I/We will provide: | my/our cooperation to enable t | he Assignee to enjoy the foregoing right, to | itle, and interest to the fullest |
| | | nee, I/we agree to execute all papers, take a | |
| | | tions and infringement actions, and do all | |
| | | and maintaining patents on the foregoing in | |
| thereto in the Assig | | were a second se | volution of 101 portrousing time |
| | 90000 | | |
| I/We certify that I/ | we have the full right to conve | v the above rights. | |
| | ., | y 100 (00) V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| | | | |
| | (sign name here) | | |
| Date | (print name here) | Kay NEHRKE | , Assignor |
| Frace | (maint manus hage) | Baker BOEFRATE BOT | 505: |
| Date | (print name here) | Peter BOERNERT | , Assignor |
| Date | (print name here) | Johan Michiel DEN HARDER | , Assignor |
| 13 Sep 2013 | | and the second s | |
| Date | (print name here) | Thomas ilendrik ROZIJN | Assignor |
| | | | |

Page 1 of 1

PATENT REEL: 035313 FRAME: 0538 to