505729163 10/18/2019

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| RAFAEL WIEMKER | 09/20/2018 |
| TOBIAS KLINDER | 09/20/2018 |
| HEIKE RUPPERTSHOFEN | 09/20/2018 |
| NICOLE SCHADEWALDT | 03/27/2018 |

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: | 16606249 |

CORRESPONDENCE DATA

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|-------------------------|----------------|
| NAME OF SUBMITTER: | NOEMI CHAPA |
| SIGNATURE: | /Noemi Chapa/ |
| DATE SIGNED: | 10/18/2019 |

Total Attachments: 3

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PATENT 505729163 REEL: 050756 FRAME: 0023

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PATENT REEL: 050756 FRAME: 0024 ASSIGNMENT & DECLARATION

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s) or Inventor, 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 filed on ***, having a United States Application No. *** | |
| 🔀 was filed on 2018-Apr-18, having an International Application No. PCT/EP2018/05990- | \$ |

and all rights in and to said application, and all other United States, foreign and infernational 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.

As a below-named inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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|--|--|--|-------------------|
| Date: 28 - \$27018 | Signature: | - Chaldana Gi | Assignor/inventor |
| • | | Rafael WIEMKER | |
| Date: | Signature: | | Assignor/Inventor |
| | , and the second | Tobias KLINDER | • |
| Date: | Signature: | Samuel Control of the | Assignor/Inventor |
| | ~ | Heike RUPPERTSHOFEN | |
| Date: | Signature: | , | Assignor/Inventor |
| | ₩. | Nicole SCHADEWALDT | • |

PATENT REEL: 050756 FRAME: 0025

Date: _____

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s) or Inventor, 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 filed on ***, having a United States Application No. *** was filed on 2018-Apr-18, having an International Application No. PCT/EP2018/059904, 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 paths, 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. As a below-named Inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original Inventor or an original joint Inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. Date: Signature: Assignor/Inventor Rafael WIEMKER Date: <u>20 S. 48</u> Signature: 7 Assignor/Inventor Tobias KLINDER Date: ROAKS K Carolux inco Prigger be les! Signature: Assignor/Inventor

Heike RUPPERTSHOFEN

Nicole SCHADEWALDT

Signature:

PATENT REEL: 050756 FRAME: 0026

Assignor/inventor

| hereby sell, and assign, and tran having a place of business at Hig | sfer the entire th Tech Cam | I/we acknowledge receipt, I/we as a below-named / a and exclusive right, title, and interest in the followin pus 5, 5656 AE, Eindhoven, the Netherlands, its suc actively "the Assignee") my/our invention for which ar | g to Koninklijke Philips N.V., cessors, assigns, and legal |
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| is executed concurrently here | ewith . | | |
| was filed on ***, having a Uni | ted States Ap | oplication No. *** | |
| was filed on 2018-Apr-18, ha | iving an Inter | national Application No. PCT/EP2018/059904, | |
| therewith, based thereon, or clair divisions, continuations, continua | ming priority t itions-in-part, | Il other United States, foreign and international paten herefrom including, but not limited to, any and all pro re-examinations, reissues, and extensions thereof, a a, and interest in and to any and all patents granted o | ovisionals, non-provisionals and the right to claim priority |
| | | fice officials in the United States and in any and all fo the Assignee(s), for its sole use, and that of its succ | |
| Upon request at the expense of t proceedings including patent pro | he Assignee, secution acti | e the Assignee to enjoy the foregoing right, title, and , I/we agree to execute all papers, take all rightful oal ons and infringement actions, and do all other such a ng and maintaining patents on the foregoing inventio | ths, testify in all legal acts which may be |
| I/We certify that I/we have the ful | I right to conv | vey the above rights. | |
| | • | that the above-identified application was made or au al joint Inventor of a claimed invention in the applicat | |
| I hereby acknowledge that any w imprisonment of not more than fir | | stement made in this declaration is punishable under or both. | 18 U.S.C. 1001 by fine or |
| Date: | Signature: | | Assignor/Inventor |
| Date: | Signature: | Rafael WIEMKER | Assignor/Inventor |
| | | Tobias KLINDER | |
| Date: | Signature: | Heiky HUPPERTSHOYEN | Assignor/Inventor |
| Date: <u>27.03.2028</u> | Signature: | NICOL SCHADEWALDT | Assignor/Inventor |

PATENT REEL: 050756 FRAME: 0027