PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| 502173133 | | | PATENT REEL: 029517 FRAME: 0724 | | | |
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| ATTORNEY DOCKET N | IUMBER: | 2010P00297WOUS | | | | |
| Property Type Number Application Number: 13806305 CORRESPONDENCE DATA Fax Number: 9143320615 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 914-332-0222 Email: vera.kublanov@philips.com Correspondent Name: Michael E. MARION Address Line 1: P.O. BOX 3001 Address Line 2: Intellectual Property & Standards Address Line 4: BRIARCLIFF MNR., NEW YORK 10510-8001 BRIARCLIFF MNR., NEW YORK 10510-8001 | | | | | | |
| PROPERTY NUMBERS Total: 1 Property Type Number | | | | | | |
| Postal Code: 5656AE | | | | | | |
| | | RLANDS | | | | |
| | Eindhoven | | | | | |
| | High Tech Campus | 5 | | | | |
| | Koninklijke Philips I | Electronics N V | | | | |
| | | | | | | |
| PIETER VAN DER WEL RENE DRIESSENS | L | | 07/08/2011 | | | |
| | | | 09/12/2011 | | | |
| HANS CILLESSEN | | | 09/20/2011 | | | |
| KOEN KRIEGE | | | 04/06/2012 | | | |
| RIFAT HIKMET | | | 09/20/2011 | | | |
| CONVEYING PARTY DA | | lame | Execution Date | | | |
| NATURE OF CONVEYANCE: ASSIGNMENT | | | | | | |
| SUBMISSION TYPE: NEW ASSIGNMENT | | | | | | |

NAME OF SUBMITTER:

Total Attachments: 5

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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 Electronics N.V., having a place of business at Groenewoudseweg 1, 5621 BA Eindhoven, the Netherlands, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee") my/our invention for which an application:

| \square | is e | xecuted co | oncurrently herewith |
|-------------|------|------------|---|
| | was | executed | by me/us on |
| | was | filed on. | , having a Serial No. |
| \boxtimes | was | filed on. | 2011-Jun-30, having an International Application No. PCT/IB2011/052874, |

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, reexaminations, 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 Koninklijke Philips Electronics N.V., 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.

| 20.2.201 | (sign name here) | Jen 1 | , Assignor |
|--------------------|-------------------|------------------------------|------------|
| Date | (print name here) | Rifat, HIKMET | |
| Date 20-09-2011 | (print name here) | Koen, KRIEGE | |
| Date 🕵 | (print name here) | Hans, CILLESSEN | |
| Date | (print name here) | René, WEGH | |
| Date | (print name here) | Pieter, VAN DER WEL, VAN DER | |
| Date | (print name here) | RENE, DRIESSENS | |

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| | (sign name here) | ан Англа 18 - 87 К. 1918 ан н | , Assignor |
|-----------------|-------------------|---|------------|
| Date | (print name here) | Rifat, HIKMET | |
| Date 05-04-2015 | (print name here) | Koen, KRIEGE | |
| Date | (print name here) | Hans, CILLESSEN | |
| Date | (print name here) | René, WEGH | |
| Date | (print name here) | Pieter, VAN DER WEL, VAN DER | |
| Date | (print name here) | RENE, DRIESSENS | |

PATENT REEL: 029517 FRAME: 0727

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| is executed concurrently herewith |
|---|
| was executed by me/us on |
| was filed on |
| 🛛 was filed on. 2011-Jun-30, having an International Application No. PCT/IB2011/052874, |

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| | (sign name here) | | , Assignor |
|-------------------|-------------------|------------------------------|------------|
| Date | (print name here) | Rifat, HIKMET | |
| Date | (print name here) | Koen, KRIEGE | |
| Date 12-03-201 | (print name here) | Hans, CILLESSEN | |
| Date | (print name here) | Kené, WEGH | |
| Date | (print name here) | Pieter, VAN DER WEL, VAN DER | |
| Date | (print name here) | RENE, DRIESSENS | |

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| \square | is e | cecuted of | concurrently he | erewith | | | | |
|-------------|------|------------|-----------------|-------------|--------------------|---|-----------|---|
| | was | execute | d by me/us on | ********* | ****************** | * | | |
| | was | filed on | | | , having : | a Serial No. | . | • |
| \boxtimes | was | filed on | . 2011-Jun-30, | having an) | International | Application | No. | PCT/IB2011/052874, |

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| Date | (print name here) | Koen, KRIEGE | |
| Date | (print name here) | Hans, CILLESSEN | |
| Date 08/04/2011 | (print name here) | René, WEGH | |
| Daté | (print name here) | Pieter, VAN DER WEE, VAN DER | |
| Date | (print name here) | RENE, DRIESSENS | |

PATENT REEL: 029517 FRAME: 0729

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| Date | (print name here) | René, WEGH | |
| Date | (print name here) | Pieter, VAN DER WEL, VAN DER | |
| <u>11 Jaly 2011</u> Date | Rene Driessen (print name here) | REME, DEHESSENS | |

PATENT REEL: 029517 FRAME: 0730

RECORDED: 12/21/2012