PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4855730

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------------------|----------------|
| JORIS HUBERTUS ANTONIUS HAGELAAR | 08/18/2016 |
| MARCEL VAN DER HAM | 12/15/2016 |
| AART JAN VROEGOP | 08/17/2016 |

RECEIVING PARTY DATA

| Name: | PHILIPS LIGHTING HOLDING B.V. | |
|-----------------|-------------------------------|--|
| Street Address: | HIGH TECH CAMPUS 45 | |
| City: | EINDHOVEN | |
| State/Country: | NETHERLANDS | |
| Postal Code: | 5656 AE | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15758266 |

CORRESPONDENCE DATA

Fax Number:

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: 914-495-9561

Email: jo.cangelosi@lighting.com

PHILIPS LIGHTING INTELLECTUAL PROPERTY **Correspondent Name:**

Address Line 1: **465 COLUMBUS AVENUE**

Address Line 2: **SUITE 330**

Address Line 4: VALHALLA, NEW YORK 10595

| ATTORNEY DOCKET NUMBER: | 2015P01065WOUS |
|-------------------------|----------------|
| NAME OF SUBMITTER: | GIGI MILLER |
| SIGNATURE: | /GiGi Miller/ |
| DATE SIGNED: | 03/07/2018 |

Total Attachments: 3

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> **PATENT** REEL: 045519 FRAME: 0941 504808997

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

| and assign, and trans | fer the entire and exclusiv | e right, title, and interest in the following to Phil | ips Lighting Holding B.V., |
|--|--|--|---|
| having a place of bus | iness at High Tech Campi | 18 45, 5656 AE, Eindhoven, the Netherlands, its | successors, assigns, and legal |
| representatives, inclu | ding any nominees (collec | ctively "the Assignee") my/our invention for wh | ich an application: |
| is executed concu | rrently herewith | | |
| was executed by i | me/us on | | |
| was filed on | ******* | having a Serial No | ***** |
| was filed on. 16 A | kug 2016, having an Intern | national Application No. PCT/EP2016/069422, | |
| and all rights in and t | o said application, and all | other United States, foreign and international pa | atent applications associated |
| | | herefrom including, but not limited to, any and a | • |
| provisionals division | s, continuations, continuat | ions-in-part, re-examinations, reissues, and exte | nsions thereof, and the right to |
| claim priority thereto applications. | , and the entire and exclus | iive right, title, and interest in and to any and all | patents granted on these |
| | itent when granted, solely | ce officials in the United States and in any and a to the Assignee(s), for its sole use, and that of it | • |
| extent. Upon request legal proceedings inc | at the expense of the Ass luding patent prosecution or convenient for securing | e the Assignee to enjoy the foregoing right, title, ignee, I/we agree to execute all papers, take all ractions and infringement actions, and do all oth and maintaining patents on the foregoing inver | rightful oaths, testify in all er such acts which may be |
| I/We certify that I/we | have the full right to con | vey the above rights. | |
| 8-08-2016 | (sign name here) | Degree | |
| Date | (print name here) | Joris Hubertus Autonius HAGELAAR | , Assignor |
| | (sign name here) | | |
| Date | (print name here) | Marcel VAN DER HAM | , Assignor |
| | (sign name here) | | |
| Date | (print name here) | Aart Jan VROEGOP | , Assignor |

| | | ve acknowledge receipt, I/we as a below-name | |
|---|-----------------------------|---|----------------------------------|
| ~ | | ight, title, and interest in the following to Phili | |
| | | 45, 5656 AE, Eindhoven, the Netherlands, its vely "the Assignee") my/our invention for whi | |
| representatives, includin | ig any nonunees (conecu- | very the Assignee) my our invention for win | си ан арушсания. |
| is executed concurre | ntly herewith | | |
| was executed by me | us on | | |
| was filed on | , ha | ving a Serial No | 01634 |
| was filed on. 16 Au | g 2016, having an Internat | ional Application No. PCT/EP2016/069422, | |
| and all rights in and to s | aid application, and all ot | her United States, foreign and international pa | tent applications associated |
| therewith, based thereon | a, or claiming priority the | efrom including, but not limited to, any and a | Il provisionals, non- |
| provisionals divisions, | continuations, continuation | ns-in-part, re-examinations, reissues, and exter | isions 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 all | patents granted on these |
| I/We authorize and rem | est that the Patent Office | officials in the United States and in any and al | l foreign countries to issue |
| * | | the Assignee(s), for its sole use, and that of its | |
| legal representatives. | | | |
| | | | |
| I/We will provide my/o | ur cooperation to cnable t | he Assignee to enjoy the foregoing right, title, | and interest to the fullest |
| extent. Upon request at | the expense of the Assign | nee, I/we agree to execute all papers, take all r | ghtful oaths, testify in all |
| | | tions and infringement actions, and do all othe | |
| | convenient for securing a | nd maintaining patents on the foregoing inven | tion 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. | |
| | | | |
| | | | |
| | (sign name here) | Facto Washington Andread Track VI A 4 VI | A or Lower to |
| Date | (print name here) | Joris Hubertus Antonius HAGELAAR | , Assignor |
| | | | |
| 15 December 2016 | (sign name here) | | |
| Date | (print name here) | Marcel VAN DER HAM | , Assignor |
| | | | |
| | (sign name here) | | |
| Date | (print name here) | Aart Jan VROEGOP | , Assignor |

Page 1 of 1

PATENT REEL: 045519 FRAME: 0943 For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), hereby sell,

| | | right, title, and interest in the following | |
|--|--|---|---|
| | | | ands, its successors, assigns, and legal |
| representatives, includin | g any nominees (collecti | vely "the Assignee") my/our invention | 1 for which an application: |
| is executed concurren | ntly herewith | | |
| ☐ was executed by me/ | us on | not notani dina notani ana matamata dina matamata na matamata. | |
| | | aving a Serial No | erre bentermenteree |
| was filed on, 16 Aug | ; 2016, having an Interna | tional Application No. PCT/EP2016/ | 169422 . |
| therewith, based thereon provisionals divisions, c | s, or claiming priority the ontinuations, continuations | ther United States, foreign and interna refrom including, but not limited to, a ms-in-part, re-examinations, reissues, i re right, title, and interest in and to any | ny and all provisionals, non- and extensions thereof, and the right to |
| | | officials in the United States and in as the Assignee(s), for its sole use, and | |
| extent. Upon request at legal proceedings includ | the expense of the Assigning patent prosecution ac | the Assignee to enjoy the foregoing rignee, I/we agree to execute all papers, the ctions and infringement actions, and do and maintaining patents on the foregoing | ake all rightful oaths, testify in all oall other such acts which may be |
| I/We certify that I/we ha | ive the full right to conve | withe above rights | |
| | | | |
| | | | |
| | | | |
| | (sign name here) | | |
| Date | (print name here) | Joris Hubertus Antonius HAGEL | AAR , Assignor |
| | and the second s | | |
| | | | |
| | (sign name here) | | |
| Date | (print name here) | Marcel VAN DER HAM | Assignor |
| | | | |
| ta i | | <u> </u> | |
| 12-443451- One 2016 | (sign name here) | 105×1 <u>1</u> 0 | |
| Vate 7 | (print name here) | Aus Ann VROEGOV | , Assignor |
| | | | |

Page 1 of 1