PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4409974

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SIEBE TJERK DE ZWART	05/05/2017
JAN DE GRAAF	12/20/2016
MICHEL CORNELIS JOSEPHUS MARIE VISSENBERG	12/22/2016

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:	15320816

CORRESPONDENCE DATA

Fax Number: (914)495-9570

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: 781 418-9342

Email: jo.cangelosi@philips.com

PHILIPS LIGHTING HOLDING B.V. **Correspondent Name:**

Address Line 1: **465 COLUMBUS AVENUE**

Address Line 2: **SUITE 330**

Address Line 4: VALHALLA, NEW YORK 10595

ATTORNEY DOCKET NUMBER:	2014P00562WOUS
NAME OF SUBMITTER:	DANIEL J. PIOTROWSKI
SIGNATURE:	/Daniel J. Piotrowski/
DATE SIGNED:	05/11/2017

Total Attachments: 3

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PATENT REEL: 042345 FRAME: 0819 504363282

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 Philips Lighting Holding B.V.,
having a place of business at High Tech Campus 45, 5656 AE, Eindhoven, the Netherlands, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee") my/our invention for which an application:
gening and a second

	is executed concurrently herewith
	was executed by me/us on
	was filed on, having a Serial No.
4000	was filed on. 23 Jun 2015, having an International Application No. PCT/EP2015/064164

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.

5-5-2017	(sign name here)		
Dute /	(print name here)	Siebe Tjejk DE ZWART	, Assignor
	(sign name here)		
Date	(print name here)	Jan DE GRAAF	. Assignor
	(sign name here)		
Date	(print name here)	Michel Cornelis Josephus Marie VISSENBERG	, Assignor

Page 1 of 1

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provisionals divisio	ons, continuations, continuatio	ns-in-part, re-examinations, reissues, and ex	ctensions thereof, and the right to
claim priority there	to, and the entire and exclusiv	e right, title, and interest in and to any and	all patents granted on these
applications.			
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legal representative	%.		
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	(sign name here)		
Date	(print name here)	Siebe Tjerk DE ZWART	, Assignor
en	. Tokom marma haral	LAN CONTRACTOR	
<u> 20 - 12 - 2016</u>	(sign name here) (print name here)		, Assigner
Date	(but name nere)	JAN CHAAF	* Exportance
	(sign name here)		
Date	(print name here)	Michel Cornelis Josephus Marie	, Assignor

Page 1 of 1

VISSENBERG

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

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having a place of business at High Tech Campus 45, 5656 AE, Eindhoven, the Netherlands, its successors, assign representatives, including any nominees (collectively "the Assignee") my/our invention for which an application: is executed concurrently herewith	lding B.V.,
is executed concurrently herewith was filed on. 23 Jan 2015, having an International Application No. PCT/EP2015/064164. and all rights in and to said application, and all other United States, foreign and international patent applications at therewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, no provisionals divisious, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted or applications. I/We authorize and request that the Patent Office officials in the United States and in any and all foreign countrie any and all Letters Patent when granted, solely to the Assignee(s), for its sole use, and that of its successors, assig legal representatives. I/We will provide my/our cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the extent. Upon request at the expense of the Assignee, I/We agree to execute all papers, take all rightful oaths, testilegal proceedings including patent prosecution actions and infringement actions, and do all other such acts which necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfect thereto in the Assignee. I/We certify that I/we have the full right to convey the above rights. Siebe Tjerk DE ZWART Assignor	gns, and legal
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and all rights in and to said application, and all other United States, foreign and international patent applications at therewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, no provisionals divisions, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted or applications. I/We authorize and request that the Patent Office officials in the United States and in any and all foreign countrie any and all Letters Patent when granted, solely to the Assignee(s), for its sole use, and that of its successors, assig legal representatives. I/We will provide my/our cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the extent. Upon request at the expense of the Assignee, I/we agree to execute all papers, take all rightful oaths, testilegal proceedings including patent prosecution actions and infringement actions, and do all other such acts which necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfect thereto in the Assignee. I/We certify that I/we have the full right to convey the above rights. (sign name here) Date (print name here) Siebe Tjerk DE ZWART , Assignor (sign name here) Jan DE GRAAF , Assignor	
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Page 1 of 1

PATENT REEL: 042345 FRAME: 0822