09/17/2018 505096654

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5143414

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BARTEL MARINUS VAN DE SLUIS	09/17/2018
BERENT WILLEM MEERBEEK	10/14/2016
ABRAHAM ANTONIUS ARNOLDUS BOS	08/20/2018
ROEL PETER GEERT CUPPEN	03/11/2016
TOMMY REINHOUT	08/22/2018
LIEVEN VERDIN	11/13/2017

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:	15741281	

CORRESPONDENCE DATA

Fax Number: (914)769-4916

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@signify.com

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

465 COLUMBUS AVENUE Address Line 1:

Address Line 2: **SUITE 330**

Address Line 4: VALHALLA, NEW YORK 10595

ATTORNEY DOCKET NUMBER:	2015P00686WOUS
NAME OF SUBMITTER:	DANIEL J. PIOTROWSKI
SIGNATURE:	/DANIEL J. PIOTROWSKI/
DATE SIGNED:	09/17/2018

PATENT REEL: 046887 FRAME: 0486 505096654

Total Attachments: 7 source=2015P00686WOUS_ASSIGNMENT#page1.tif source=2015P00686WOUS_ASSIGNMENT#page2.tif source=2015P00686WOUS_ASSIGNMENT#page3.tif source=2015P00686WOUS_ASSIGNMENT#page4.tif source=2015P00686WOUS_ASSIGNMENT#page5.tif source=2015P00686WOUS_ASSIGNMENT#page6.tif

source=2015P00686WOUS_ASSIGNMENT#page7.tif

PATENT REEL: 046887 FRAME: 0487

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, Findhoven, the Netherlands, its successors, assigns, and legal
representatives, including any nominees (collectively "the Assignee") my/our invention for which an application:

	îs ez	recuted c	oncurrently herewith
	was	executed	by me/us on
	was	filed on.	, having a Serial No.
X	was	filed on.	27 Jun 2016, having an International Application No. PCT/EP2016/064845.

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.

17-34t.2018	(sign name here)	-AMA	
Date	(print name bere)	Bartel, Murinus VAN DE SLUIS	, Assignor
Date	(print name here)	Berent, Willem MEERBEEK	, Assignor
Date	(print name here)	Abraham, Antonius, Arnoldus BOS	, Assignor
Date	(print name here)	Roel, Peter, Geert CUPPEN	, Assigner
Date	(print name here)	Tommy REINHOUDT	, Assignor
Date	(print name here)	Lieven VERDIN	, Assignor

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Date	(print name here)	Abraham Antonius Arnoldus BOS	, Assignor
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Date	(print name here)	Berent Willem MEERBEEK	, Assignor
14/10/2016	(print name here) (sign name here)	1/1/02/1/2012	, Assignor
Date	(sign name here)	Bartel Marinus VAN DE SLUIS	Acciemen
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applications.			
claim priority thereto, a	nd the entire and exclusiv	re right, title, and interest in and to any and all	patents granted on these
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		iving a Serial No	21(21)
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representatives, includir	ng any nominees (collecti	vely "the Assignee") my/our invention for wh	ich an application:
		45, 5656 AE, Eindhoven, the Netherlands, its	···
and assign, and transfer	the entire and exclusive r	right, title, and interest in the following to Phil	ips Lighting Holding B.V.,

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 to having a place of bisine	he estire and exchasive ry s at High Tech Campus 4	cacknowledge receipt. I we as a below-named, title, and interest in the following to Phil 5 5656 AF, Findboven, the Netherlands, its cly "the Assignee") my/our invention for wh	ips Lighting Holding B V. successors, assigns, and legal
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Date	(print name here) (sign name here)	Barrel Marious VAN DE SLUIS	Assignor
Date	(print name berei	Berent Willem MEERBEEK	Assess
0 406 7015 Date	(sign name here) (print name here)	Abraham Auronius Arnoldus BOS	Assume
Date	(principane bote)	Roof Peter Geers CUPPEN	Assert
Date	Manual parameters (Mill broke parameters)	Tommy REINHOLDT	Assess
fair	(SEC DETECTOR)	Liver VERDIN	Assess

to

Date

Date

Date

Date

03-11-2016

For good and valuable consideration, of which I/we ack and assign, and transfer the entire and exclusive right, the having a place of business at High Tech Campus 45, 56 representatives, including any nominees (collectively "to	title, and interest in the following to Philips 656 AE, Eindhoven, the Netherlands, its su	s Lighting Holding B.V., accessors, assigns, and legal
☐ is executed concurrently herewith ☐ was executed by me/us on, having a ☐ was filed on, having an International A	a Serial No.	
and all rights in and to said application, and all other Untherewith, based thereon, or claiming priority therefrom provisionals divisions, continuations, continuations-in-claim priority thereto, and the entire and exclusive right applications.	n including, but not limited to, any and all part, re-examinations, reissues, and extensi	provisionals, non- ions thereof, and the right to
I/We authorize and request that the Patent Office official any and all Letters Patent when granted, solely to the A legal representatives.	•	_
I/We will provide my/our cooperation to enable the Assignee, I/legal proceedings including patent prosecution actions a necessary, desirable, or convenient for securing and mathereto in the Assignee. I/We certify that I/we have the full right to convey the actions are convenient for securing and mathereto in the Assignee.	we agree to execute all papers, take all right and infringement actions, and do all other aintaining patents on the foregoing invention	htful oaths, testify in all such acts which may be
(sign name here)	Double Marriana VAN DE CLUIC	
Date (print name here) E (sign name here)	Bartel Marinus VAN DE SLUIS	, Assignor
	Berent Willem MEERBEEK	, Assignor

Page 1 of 1

Lieven VERDIN

Abraham Antonius Arnoldus BOS

Roel Peter Geert CUPPEN

Tommy REINHOUDT

(sign name here)

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(sign name here)

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Roel Cuppen

PATENT REEL: 046887 FRAME: 0491

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having a place of busin	ess at High Tech Campus	45, 5656 AE, Eindhoven, the Netherlands, it	s successors, assigns, and legal
representatives, includi	ing any nominees (collectiv	rely "the Assignee") my/our invention for w	hich an application:
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was filed on	, ha	ving a Serial No	->****
was filed on. 27 Ju	n 2016, having an Internat	ional Application No. PCT/EP2016/064845	,
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claim priority thereto, applications.	and the entire and exclusiv	e right, title, and interest in and to any and a	ll patents granted on these
I/We authorize and req	uest that the Patent Office	officials in the United States and in any and	all foreign countries to issue
any and all Letters Pate	ent when granted, solely to	the Assignee(s), for its sole use, and that of	its successors, assigns, and
legal representatives.			
		he Assignee to enjoy the foregoing right, titl	
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thereto in the Assignee		u the above rights	
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	(sign name here)		
Date	(print name here)	Bartel Marinus VAN DE SLUIS	, Assignor
	(sign name here)		
Date	(print name here)	Berent Willem MEERBEEK	, Assignor
	(sign name here)		
Date	(print name here)	Abraham Antonius Arnoldus BOS	, Assignor
Date	(print name here)	Roel <u>Peter G</u> eert CUPPEN	, Assignor
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<u> </u>	(print name here)	Totamy REINHOUDT	, Assignor
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Page 1 of 1

Lieven VERDIN

(sign name here)
(print name here)

Date

PATENT REEL: 046887 FRAME: 0492

, Assignor

		ve acknowledge receipt, I/we as a below-nar	
		ight, title, and interest in the following to Ph	
		45, 5656 AE, Eindhoven, the Netherlands, it	
representatives, inc	cluding any nominees (collectiv	vely "the Assignee") my/our invention for w	hich an application:
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was filed on	, ha	ving a Serial No	*********
was filed on. 21	7 Jun 2016, having an Internat	ional Application No. PCT/EP2016/064845	
and all rights in an	d to said application, and all ot	her United States, foreign and international	patent applications associated
therewith, based th	ereon, or claiming priority the	refrom including, but not limited to, any and	all provisionals, non-
provisionals divisi	ons, continuations, continuation	ns-in-part, re-examinations, reissues, and ex	tensions thereof, and the right to
	eto, and the entire and exclusiv	e right, title, and interest in and to any and a	ll patents granted on these
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legal representative	es.		
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	(sign name here)		
Date	(print name here)	Bartel Marinus VAN DE SLUIS	, Assignor
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Date	(print name here)	Berent Willem MEERBEEK	, Assignor
	(sign name here)		
Date	(print name here)	Abraham Antonius Arnoldus BOS	, Assignor
Date	(print name here)	Roel <u>Peter G</u> eert CUPPEN	, Assignor
22/8/2018	(sign name here)	And Am	T
Date	(print name here)	Tommy REINHOUDT	, Assignor

Page 1 of 1

Lieven VERDIN

(sign name here)

(print name here)

Date

PATENT REEL: 046887 FRAME: 0493

, Assignor

U.S.A. Sole/Joint ASSIGNMENT Docket No. 2015P00686WOUS

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:

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I/We certify that I/we have the full right to convey the above rights.

	(sign name here)		
Date	(print name here)	Bartel Marinus VAN DE SLUIS	, Assignor
	(sign name here)		
Date	(print name here)	Berent Willem MEERBEEK	, Assignor
	(sign name here)		
Date	(print name here)	Abraham Antonius Arnoldus BOS	, Assignor
Date	(print name here)	Roel Peter Geert CUPPEN	, Assignor
	(sign name here)		
Date	(print name here)	Tommy REINHOUDT	, Assignor
13/11/2017-	At him	·¥	
Date	* Year arts a same of	Lieven VERDIN	, Assignor

Page 1 of 1

PATENT REEL: 046887 FRAME: 0494

RECORDED: 09/17/2018