504483967 08/01/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4530669

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JULIAN CHARLES NOLAN	01/02/2016
MATTHEW JOHN LAWRENSON	01/02/2016
ALEXANDER HENRICUS WALTHERUS VAN EEUWIJK	01/02/2016
HILBRAND VAN DEN WYNGAERT	01/22/2016
HUON URBALD OGIER NORBERT VAN DE LAARSCHOT	01/26/2016

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:	15548047

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

Correspondent Name: PHILIPS LIGHTING HOLDING B.V.

Address Line 1: 465 COLUMBUS AVENUE

Address Line 2: SUITE 330

Address Line 4: VALHALLA, NEW YORK 10595

Total Attachments: 4	
DATE SIGNED:	08/01/2017
SIGNATURE:	/Daniel J. Piotrowski/
NAME OF SUBMITTER:	DANIEL J. PIOTROWSKI
ATTORNEY DOCKET NUMBER:	2014P01641WOUS

Total Attachments: 4

PATENT REEL: 043160 FRAME: 0319 source=2014P01641WOUS_ASSIGNMENT#page1.tif source=2014P01641WOUS_ASSIGNMENT#page2.tif source=2014P01641WOUS_ASSIGNMENT#page3.tif source=2014P01641WOUS_ASSIGNMENT#page4.tif

> PATENT REEL: 043160 FRAME: 0320

a place of busines	is at High Tech Campus 5,56	h I/we acknowledge receipt, I/we as a below ve right, title, and interest in the following to i56 AE, Eindhoven, the Netherlands, its succ ectively "the Assignee") my/our invention fo	Koninklijke Philips N.V., having
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is executed co	ncurrently herewith		
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₩as filed on, 2	I Jan 2016, having an Interr	national Application No. PCT/EP2016/0512	18
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legal representative I/We will provide n extent. Upon reque	ny/our cooperation to enable at the expense of the Assi	ce officials in the United States and in any are to the Assignee(s), for its sole use, and that the the Assignee to enjoy the foregoing right, the gree, I/we agree to execute all papers, take a	of its successors, assigns, and the fullest
		and maintaining patents on the foregoing in	ention or for perfecting title
thereto in the Assign	nec,		producting three
I We certify that I'v	se have the full right to conv	ey the above rights.	W. C.
1/2/20 Date / 2/20/	(sign name here)		
1/7/7/7/7//	(print name here)	Julian Charins NOLAN	, Assignor
Daly		Matthew John LAWRENSON	
	(print name here)	Matthew John LAWRENSON	, Assignor
Date	(print name here)	A trace of the same of the sam	
	(henry come secto)	Alexander Henricus Waltherns VAN EEUWIJK	, Assignor
Date	(print name here)	Hilbrand VANDEN WYNGAERT	4
	,	**************************************	, Assignor
Date	(print name here)	Huon Urbald Ogier Norbert VAN DE	, Assignor

Page 1 of 1

REEL: 043160 FRAME: 0321

		e acknowledge receipt, I/we as a below-nan	
		ght, title, and interest in the following to Ko	
a place of business at Hig	gh Tech Campus 5,5656 A	AE, Eindhoven, the Netherlands, its successo	ors, assigns, and legal
representatives, including	g any nominees (collectiv	ely "the Assignee") my/our invention for wh	nich an application:
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is executed concurrer			
	us on		
		ring a Serial No	
was filed on. 21 Jan	2016, having an Internation	onal Application No. PCT/EP2016/051218,	
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		the Assignee(s), for its sole use, and that of i	•
legal representatives.	•		. Q .
I/We will provide my/ou	r cooperation to enable th	e Assignee to enjoy the foregoing right, title	, and interest to the fullest
		ee, I/we agree to execute all papers, take all	
		ions and infringement actions, and do all oth	
		id maintaining patents on the foregoing inve	Ū
thereto in the Assignee.	~	<u> </u>	······································
<i>w</i>			
I/We certify that I/we have	ve the full right to convey	the above rights.	
	(sign name here)	<i>I</i>	
Date	(print name here)	Julian Charles NOLAN	, Assignor
Date	(print native/here)	Matthew John LAWRENSON	, Assignor
Date	(print name hépé)	Mexander Henricus Waltherus VAN	, Assignor
		EEUWIJK	
Date	(print name here)	Hilbrand VANDEN WYNGAERT	, Assignor

Page 1 of 1

LAARSCHOT

(print name here)

Date

Huon Urbald Ogier Norbert VAN DE

, Assignor

Date

and assign, and trans a place of business a	ifer the entire and exclusive t High Tech Campus 5,5656	we acknowledge receipt, I/we as a below-nation, it is and interest in the following to keep AE, Eindhoven, the Netherlands, its successively "the Assignee") my/our invention for	Coninklijke Philips N.V., having ssors, assigns, and legal
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	me/us on		
		eving a Serial No	
was filed on. 21 J	Ian 2016 , having an Internat	tional Application No. PCT/EP2016/05121	8,
and all rights in and	o said application, and all o	ther United States, foreign and international	patent applications associated
therewith, based ther	eon, or claiming priority the	refrom including, but not limited to, any an	d all provisionals, non-
provisionals division	s, continuations, continuatio	ns-in-part, re-examinations, reissues, and ex	xtensions thereof, and the right to
claim priority thereto	, and the entire and exclusiv	e right, title, and interest in and to any and	all patents granted on these
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thereto in the Assigne	_	21	, and the second
I/We certify that I/we	have the full right to conve	y the above rights:	
nama	(sign name here)	Yasian Chaulan NOT AN	A
Date	(print name here)	Julian Charles NOLAN	, Assignor
Date	(print name here)	Matthew John LAWRENSON	, Assignor
Date	(print name here)	Alexander Henricus Waltherns VAN	, Assignor
22 Jan 2016 Date	(print name here)	Hijbrand VIN BAN V V GAERT	, Assignor

Page 1 of 1

LAARSCHOT

(print name here)

Huon Urbald Ogier Norbert VAN DE

PATENT REEL: 043160 FRAME: 0323

, Assignor

and assign, and t a place of busine	ransfer the entire and exclusive (ss at High Tech Campus 5,5656	we acknowledge receipt. I/we as a below-nan right, title, and interest in the following to Ko AE, Eindhoven, the Netherlands, its successovely "the Assignee") my/our invention for wh	ninklijke Philips N.V., having ors, assigns, and legal
was executed was filed on.		ving a Serial Noional Application No. PCT/EP2016/051218,	
therewith, based provisionals divis	thereon, or claiming priority the sions, continuations, continuatio	her United States, foreign and international prefrom including, but not limited to, any and ans-in-part, re-examinations, reissues, and exteright, title, and interest in and to any and all	all provisionals, non- ensions thereof, and the right to
	s Patent when granted, solely to	officials in the United States and in any and a the Assignee(s), for its sole use, and that of i	
extent. Upon req legal proceedings necessary, desiral thereto in the Ass	uest at the expense of the Assign including patent prosecution ac ble, or convenient for securing a	he Assignee to enjoy the foregoing right, title nee, I/we agree to execute all papers, take all tions and infringement actions, and do all oth and maintaining patents on the foregoing invertible to the above rights.	rightful oaths, testify in all er such acts which may be
	(sign name here)		
Date	(print name here)	Julian Charles NOLAN	, Assignor
Date	(print name here)	Matthew John LAWRENSON	, Assignor
Date	(print name here)	Alexander Henricus Waltherus VAN EEUWIJK	, Assignor
Date	(print name here)	Hilbrand VANDEN WYNGAERT	, Assignor

Page 1 of 1

LAARSCHOT

Huon Urbald Ogier Norbert VAN DE

PATENT REEL: 043160 FRAME: 0324

, Assignor

(print name here)