

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4683448

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
KONINKLIJKE PHILIPS N.V.		06/30/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	LUMILEDS LLC	
<b>Street Address:</b>	370 W. TRIMBLE RD.	
<b>City:</b>	SAN JOSE	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	95131	
<b>PROPERTY NUMBERS Total: 104</b>		
<b>Property Type</b>	<b>Number</b>	
Application Number:	13365668	
Application Number:	12513382	
Application Number:	15016019	
Application Number:	12491976	
Application Number:	61387681	
Application Number:	15161571	
Application Number:	61409153	
Application Number:	15482350	
Application Number:	61409158	
Application Number:	61392378	
Application Number:	61409160	
Application Number:	14948042	
Application Number:	15651768	
Application Number:	61415395	
Application Number:	14921938	
Application Number:	61452181	
Application Number:	14994106	
Application Number:	15664651	
Application Number:	61491918	
Application Number:	14869625	

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Property Type	Number
Application Number:	15066237
Application Number:	15645964
Application Number:	61489280
Application Number:	14977565
Application Number:	15663715
Application Number:	61491920
Application Number:	14114809
Application Number:	61527634
Application Number:	61597366
Application Number:	61587156
Application Number:	61597358
Application Number:	14997713
Application Number:	61556343
Application Number:	15071792
Application Number:	61508211
Application Number:	61614578
Application Number:	15148135
Application Number:	61603985
Application Number:	61612536
Application Number:	61617919
Application Number:	61617903
Application Number:	61584836
Application Number:	61668053
Application Number:	15195004
Application Number:	61677107
Application Number:	61723341
Application Number:	61656691
Application Number:	61673810
Application Number:	15170442
Application Number:	14892193
Application Number:	15434969
Application Number:	61674883
Application Number:	61701742
Application Number:	14891332
Application Number:	15287623
Application Number:	14764202
Application Number:	15289548
Application Number:	14762576

Property Type	Number
Application Number:	14392345
Application Number:	14903727
Application Number:	14782774
Application Number:	14896371
Application Number:	14763873
Application Number:	14906539
Application Number:	14902001
Application Number:	15581204
Application Number:	15031612
Application Number:	15664825
Application Number:	14917217
Application Number:	15640482
Application Number:	14906256
Application Number:	14901705
Application Number:	15373710
Application Number:	15103474
Application Number:	15103991
Application Number:	15102986
Application Number:	15105096
Application Number:	15104475
Application Number:	15104220
Application Number:	15106667
Application Number:	15107867
Application Number:	15495425
Application Number:	15113738
Application Number:	15607180
Application Number:	15122599
Application Number:	61901072
Application Number:	15032021
Application Number:	15504796
Application Number:	15312608
Application Number:	15538048
Application Number:	62293741
Application Number:	15533158
Application Number:	15510999
Application Number:	14853102
Application Number:	15339637
Application Number:	62243470

Property Type	Number
Application Number:	62238664
Application Number:	62238666
Application Number:	62258385
Application Number:	62172834
Application Number:	62272416
Application Number:	62262311
Application Number:	62298355
Application Number:	15437872

#### 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.*

**Email:** dkerner@vklaw.com

**Correspondent Name:** VOLPE AND KOENIG, P.C.

**Address Line 1:** 30 SOUTH 17TH STREET

**Address Line 2:** UNITED PLAZA

**Address Line 4:** PHILADELPHIA, PENNSYLVANIA 19103

<b>ATTORNEY DOCKET NUMBER:</b>	LUMI-1A
<b>NAME OF SUBMITTER:</b>	DAWN C. KERNER
<b>SIGNATURE:</b>	/Dawn C. Kerner/
<b>DATE SIGNED:</b>	11/10/2017

**Total Attachments: 7**

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## DEED OF ASSIGNMENT

This Deed of Assignment effective the 30th day of June Two Thousand Seventeen

BETWEEN:

- (1) **Koninklijke Philips N.V.**, a public limited liability company incorporated in the Netherlands, with corporate seat in Eindhoven, the Netherlands and registered address at High Tech Campus 5, 5656 AE Eindhoven, the Netherlands, ("**Royal Philips**"), also acting on behalf of Royal Philips' Affiliates
- and
- (2) **Lumileds LLC**, a limited liability company incorporated in the USA, with corporate seat at DELAWARE and registered address at 370 West Trimble Road, San Jose, California 95131, USA (the company)

**HAVE AGREED AS FOLLOWS:**

### 1. DEFINITIONS

When used in this Deed, the following capitalised terms shall have the meaning set forth below:

"**Affiliate**" means with respect to any Person, another Person directly or indirectly Controlling, being Controlled by, or being under common Control with the first Person from the date on which, or at any time during the period for which, the determination of affiliation is being made (i.e. whether now or in the future), provided that for purposes of this Deed the Company and any of its Subsidiaries shall be deemed not to be an Affiliate of Royal Philips or any of its Affiliates and vice versa;

"**Annex**" means the annex to this Deed;

"**Control**" of a Person means, (i) with respect to a corporate Person, direct or indirect ownership of more than 50% of the outstanding voting securities of such corporate person or the ability to appoint more than half of the directors of the board of directors or equivalent governing body of such person or the ability to direct or cause the direction of the management and policies of such person,

(ii) with respect to a non-corporate Person, the comparable voting interest or financial participation (as set forth in (i) above) for such non-corporate Person, or (iii) the possession, direct or indirect, of the power to direct or cause the direction of the management and policies of a Person. The terms "**Controls**", "**Controlling**" and "**Controlled**" shall have corresponding meanings;

"**Deed**" means this deed of transfer of Patents including the Annex;

"Governmental Authority" means, to the extent it has jurisdiction in respect of the relevant matter, any judicial, legislative, executive, regulatory or competition authority or any other governmental authority, of any jurisdiction, including of the European Union;

"Party" means Royal Philips or the Company and "Parties" means Royal Philips and the Company together;

"Patents" means any patents, petty patents, utility models and applications therefor, and the right to file patent applications, including any divisionals, amendments, substitutions, continuations, continuations-in-part, provisionals and any patent issuing on any of the foregoing, re-examinations, renewals, re-issues and extensions of any of the foregoing, existing in any country in the world;

"Person" means an individual, a company or corporation, a partnership, a limited liability company, a trust, an association, a foundation or other legal entity or unincorporated organisation, including a Governmental Authority;

"Pro Forma Assignment" means a simple form of assignment containing solely the language required by the applicable law of an issuing jurisdiction to effectuate recordal of the assignment of the Patents as per this Deed; and

"Subsidiary" means, with respect to any Person, another Person, directly or indirectly Controlled by the first Person, whether now or in the future, provided that for purposes of this Deed, the Company and any of its Subsidiaries shall be deemed not to be a Subsidiary of Royal Philips or any of its Affiliates and vice versa.

## 2 TRANSFER OF OWNERSHIP OF PATENTS

In consideration of a sum of € 1.00 (one Euro), the receipt and sufficiency of which is hereby acknowledged and effective as of the date first written above, Royal Philips has assigned and agreed to transfer, and has caused its relevant Affiliates to assign and transfer, and Royal Philips hereby assigns and will cause its relevant Affiliates to assign and transfer to the Company all of Royal Philips' and, as applicable, its Affiliates' rights, title and interest in and to the Patents listed in the Annex, including all rights (a) in and to causes of action and enforcement rights for such Patents to pursue damages, injunctive relief and other remedies for past, present and future infringement of such Patents; and (b) all rights to apply in any and all countries in the world for Patents for any inventions disclosed in the Patents listed in the Annex. The Company has accepted, and hereby accepts, such assignment and Philips and its Affiliates have retained (or been granted) an irrevocable, perpetual, world-wide, royalty-free, fully paid-up license under such Patents.

**3 AMENDMENTS**

No variation, extension, cancellation or translation of any expressed terms of this Deed shall be binding upon Royal Philips or the Company unless made in writing and signed by a duly authorised representative each of Royal Philips and the Company.

**4 EFFECTUATION**

The Company will be responsible for effectuating the recordal of the assignment and transfer of the Patents listed in the Annex. In the event that, in addition to this Deed, the Company needs to submit other documents to any patent authorities in order to effectuate the recordal of the assignment and transfer of the Patents listed in the Annex, the Company hereby warrants and guarantees that such other documents will not contain language that in any way prejudices the provisions of this Deed. The Parties shall, at each other's request, (and shall cause their relevant Affiliates to) execute and deliver such written instruments and otherwise do whatever may from time to time reasonably be necessary to fully effectuate the recordal of the assignment and transfer of the Patents listed in the Annex. The Parties may also agree in good faith, for purposes of recordal of the assignment of the Patents as per this Deed, to execute *Pro Forma* Assignments or adjust this Deed provided that the Company hereby warrants and guarantees that such other documents will not contain language that in any way prejudices the provisions of this Deed.

**5 OBSERVANCE OF LEGAL REQUIREMENTS**

The Company undertakes to observe, and act in accordance with, all applicable legal requirements relating to the effectuation of the recordal of the assignment and transfer of the Patents listed in the Annex.

**6 COSTS FOR REFERRAL**

Any costs related to the recordal of the assignment and transfer of the Patents listed in the Annex in the relevant registers will be borne by the Company.

**7 APPLICABLE LAW AND JURISDICTION**

This Deed and the documents to be entered into pursuant to it, save as expressly otherwise provided therein, shall be governed by and construed in accordance with the laws of the Netherlands, provided that to the extent that any provisions of the law of the issuing jurisdiction are mandatory for assignment of Patents, such specific provisions of that law shall prevail.

The Parties shall attempt in good faith to resolve promptly any dispute arising out of or relating to this Deed by negotiation between a duly authorised representative of each Party, including disputes concerning the existence, validity and termination of this Deed, within forty-five (45) business days of the matter being referred to them, following and upon the written request of either of the Parties.

If the Parties are unable to resolve any such dispute as provided above, any such dispute arising out of or relating to this Deed shall be submitted to the Court of The Hague, the Netherlands.

IN EVIDENCE WHEREOF, the Parties have caused this Deed to be signed by their duly authorised representatives the day and year first written above.

**Koninklijke Philips N.V.**



Name: Poul de Haan

Name:

Title: Authorized Representative

Title:

**Lumileds LLC**



Name: : Keaton Parekh

Name:

Title: Authorized Representative

Title:



## ANNEX

Country code	Filing date	Grant date	Application number	Grant number	Assignee
US	5/4/2009	2/14/2012	12/513,382	8,113,675	Koninklijke Philips N.V.
US	2/3/2012	9/4/2012	13/365,668	8,256,914	Koninklijke Philips N.V.
US	5/23/2016		15/161,571		Koninklijke Philips N.V.
US	9/29/2010		61/387,681		Koninklijke Philips N.V.
US	11/2/2010		61/409,153		Koninklijke Philips N.V.
US	4/7/2017		15/482,350		Koninklijke Philips N.V.
US	11/2/2010		61/409,160		Koninklijke Philips N.V.
US	11/20/2015	7/18/2017	14/948,042	9,711,687	Koninklijke Philips N.V.
US	5/24/2011		61/489,280		Koninklijke Philips N.V.
US	12/21/2015	8/1/2017	14/977,565	9,722,161	Koninklijke Philips N.V.
US	2/22/2016		62/298,355		Koninklijke Philips N.V.
US	2/21/2017		15/437,872		Koninklijke Philips N.V. and Lumileds LLC
US	8/26/2011		61/527,634		Koninklijke Philips N.V.
US	8/30/2011		61/528,886		Koninklijke Philips N.V.
US	7/15/2011		61/508,211		Koninklijke Philips N.V.
US	3/23/2012		61/614,578		Koninklijke Philips N.V.
US	5/6/2016		15/148,135		Koninklijke Philips N.V.
US	3/19/2012		61/612,536		Koninklijke Philips N.V.
US	1/10/2012		61/584,836		Koninklijke Philips N.V.
US	7/5/2012		61/668,053		Koninklijke Philips N.V.
US	6/28/2016		15/195,004		Koninklijke Philips N.V.
US	6/7/2012		61/656,691		Koninklijke Philips N.V.
US	7/20/2012		61/673,810		Koninklijke Philips N.V.
US	6/1/2016		15/170,442		Koninklijke Philips N.V.
US	9/17/2012		61/701,742		Koninklijke Philips N.V.
US	1/8/2016		14/903,727		Koninklijke Philips N.V.
US	10/6/2015		14/782,774		Koninklijke Philips N.V.
US	12/4/2015		14/896,371		Koninklijke Philips N.V.
US	7/28/2015		14/763,873		Koninklijke Philips N.V.
US	1/20/2016		14/906,539		Koninklijke Philips N.V.
US	4/22/2016	8/1/2017	15/031,612	9,722,138	Koninklijke Philips N.V.
US	3/7/2016	7/4/2017	14/917,217	9,698,323	Koninklijke Philips N.V.
US	1/19/2016		14/906,256		Koninklijke Philips N.V.
US	6/10/2016		15/103,474		Koninklijke Philips N.V.
US	6/20/2016		15/106,667		Koninklijke Philips N.V.
US	6/23/2016	4/25/2017	15/107,867	9,634,208	Koninklijke Philips N.V.

Country code	Filing date	Grant date	Application number	Grant number	Assignee
US	4/24/2017		15/495,425		Koninklijke Philips N.V.
US	7/22/2016	5/30/2017	15/113,738	9,666,771	Koninklijke Philips N.V.
US	5/26/2017		15/607,180		Koninklijke Philips N.V.
US	11/7/2013		61/901,072		Koninklijke Philips N.V.
US	4/25/2016		15/032,021		Koninklijke Philips N.V.
US	3/13/2017		15/510,999		Koninklijke Philips N.V.
US	9/14/2015	11/29/2016	14/853,102	9,508,907	Koninklijke Philips N.V.
US	10/31/2016		15/339,637		Koninklijke Philips N.V.
US	10/7/2015		62/238,664		Koninklijke Philips N.V.
US	10/7/2015		62/238,666		Koninklijke Philips N.V.
US	3/14/2011		61/452,181		Koninklijke Philips N.V.
US	1/12/2016	8/1/2017	14/994,106	9,722,137	Koninklijke Philips N.V.
US	2/10/2012		61/597,366		Koninklijke Philips N.V.
US	11/20/2015		62/258,385		Koninklijke Philips N.V.
US	12/29/2015		62/272,416		Koninklijke Philips N.V.
US	12/2/2015		62/262,311		Koninklijke Philips N.V.
US	6/14/2016		15/104,475		Koninklijke Philips N.V.
US	3/30/2012		61/617,903		Koninklijke Philips N.V.
US	3/30/2012		61/617,919		Koninklijke Philips N.V.
US	12/23/2015		14/392,345		Koninklijke Philips N.V.
US	2/17/2017		15/504,796		Koninklijke Philips N.V.
US	12/29/2015	5/2/2017	14/902,001	9,640,729	Koninklijke Philips N.V.
US	4/28/2017		15/581,204		Koninklijke Philips N.V.
US	9/5/2012		61/696,943		
US	10/23/2015		14/921,938		
US	11/19/2010		61/415,395		Koninklijke Philips Electronics N.V.
US	6/9/2015		62/172,834		Koninklijke Philips N.V.
US	3/17/2008		12/050,082		
US	9/29/2015	8/30/2016	14/869,625	9,431,581	
US	3/10/2016	7/11/2017	15/066,237	9,705,047	
US	6/13/2016		15/104,220		
US	12/15/2016		15/319,095		
US	6/1/2011		61/491,918		
US	2/4/2016		15/016,019		
US	6/25/2009		12/491,976		Koninklijke Philips N.V. and Lumileds LLC
US	10/12/2010		61/392,378		Koninklijke Philips Electronics N.V.

Country code	Filing date	Grant date	Application number	Grant number	Assignee
US	11/2/2010		61/409,158		Koninklijke Philips Electronics N.V.
US	6/1/2011		61/491,920		Koninklijke Philips Electronics N.V.
US	10/30/2013		14/114,809		Koninklijke Philips Electronics N.V.
US	1/17/2012		61/587,156		Koninklijke Philips Electronics N.V.
US	3/16/2016	2/28/2017	15/071,792	9,583,679	
US	11/7/2011		61/556,343		
US	2/28/2012		61/603,985		
US	1/18/2016		14/997,713		Koninklijke Philips Electronics N.V.
US	2/10/2012		61/597,358		Koninklijke Philips Electronics N.V.
US	11/7/2012		61/723,341		
US	7/24/2012		61/674,883		
US	7/30/2012		61/677,107		
US	12/28/2015	12/27/2016	14/901,705	9,530,949	Koninklijke Philips N.V.
US	12/9/2016	9/26/2017	15/373,710	9,773,762	
US	7/22/2015		14/762,576		Koninklijke Philips N.V.
US	11/18/2015	5/23/2017	14/892,193	9,660,154	Koninklijke Philips N.V.
US	2/16/2017		15/434,969		
US	6/13/2016		15/103,991		Koninklijke Philips N.V.
US	11/18/2016		15/312,608		Koninklijke Philips N.V.
US	11/14/2015		14/891,332		Koninklijke Philips N.V.
US	6/20/2017		15/538,048		Koninklijke Philips N.V.
US	7/29/2015	10/25/2016	14/764,202	9,478,712	Koninklijke Philips N.V.
US	10/6/2016		15/287,623		
US	2/10/2016		62/293,741		
US	10/10/2016		15/289,548		
US	6/5/2017		15/533,158		Koninklijke Philips N.V.
US	10/19/2015		62/243,470		Koninklijke Philips N.V.
US	11/20/2015		62/258,318		
US	6/9/2016		15/102,986		Koninklijke Philips N.V.
US	6/16/2016		15/105,096		Koninklijke Philips N.V.
US	8/30/2016		15/122,599		Koninklijke Philips N.V.
US	3/30/2012		61/617,689		
US	11/14/2015	11/29/2016	14/891,344	9,508,908	Koninklijke Philips N.V.
US	10/26/2016		15/335,354		