

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ZHIHUA SONG	10/08/2019
<b>RECEIVING PARTY DATA</b>	
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<b>City:</b>	SCHIPHOL
<b>State/Country:</b>	NETHERLANDS
<b>Postal Code:</b>	1118 CL
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16235596
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	LUMI-2018P00134US01
<b>NAME OF SUBMITTER:</b>	DAWN C. KERNER
<b>SIGNATURE:</b>	/Dawn C. Kerner/
<b>DATE SIGNED:</b>	10/15/2019
<b>Total Attachments: 3</b>	
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Atty. Docket No. LUMI-2018P00134US01

**ASSIGNMENT**

Whereas,

Zhijia Song  
370 West Trimble Road  
San Jose, CA 95131  
United States of America

(hereafter jointly and severally referred to as the undersigned), are the inventors of  
SYSTEMS, APPARATUS AND METHODS OF ZERO CURRENT DETECTION  
AND START-UP FOR DIRECT CURRENT (DC) TO DC CONVERTER CIRCUITS  
for which the undersigned have executed an application for United States Letters  
Patent, U.S. Patent Application No. 16/235,596, filed December 28, 2018.

The undersigned hereby authorize assignee or assignee's representative to  
insert the Application Number and the filing date of this application if they are  
unknown at the time of execution of this assignment.

Lumileds Holding B.V., a private limited liability company incorporated in  
the Netherlands, having a place of business at The Base, Tower B5 Unit 107, Evert  
van de Beekstraat 1, Schiphol, NL 1118 CL, (hereafter referred to as "Assignee") is  
desirous of acquiring the entire right, title and interest in said invention, all  
applications for and all letters patent issued on said invention

For good and valuable consideration, the receipt and sufficiency of which is  
acknowledged, the undersigned, intending to be legally bound, do hereby sell, assign  
and transfer to the assignee and assignee's successors, assigns and legal  
representatives the entire right, title and interest in said invention and all patent  
applications thereon, including, but not limited to, the application for United States  
Letters Patent entitled as above, and all divisions and continuations thereof, and in  
all letters patent, including all reissues and reexaminations thereof, throughout the  
world, including the right to claim priority under the Paris Convention or other  
treaty.

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It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this instrument.

The undersigned warrant that the rights and property herein conveyed are free and clear of any encumbrance.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

AND if this Agreement is signed electronically (e.g., via DocuSign, Adobe Sign, Hello Sign, electronically drawn, or the like), by signing this Agreement electronically, the undersigned agree that the undersigned's electronic signature is the legal equivalent of the undersigned's manual signature on this Agreement. The undersigned further agree that use of a touch pad, keyboard, key pad, mouse or other device to select a signature item, button, icon or a similar act/action constitutes the undersigned's signature as if manually signed by the undersigned.

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10/8/2019 | 5:25 PM EDT

Date

DocuSigned by:  
*Zhihua Song*  
9434F8E0D670428  
Zhihua Song

Signed at

San Jose, U.S.A.

(City and Country)