#### 505768565 11/12/2019

# PATENT ASSIGNMENT COVER SHEET

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**SUBMISSION TYPE: NEW ASSIGNMENT** 

**NATURE OF CONVEYANCE: ASSIGNMENT** 

### **CONVEYING PARTY DATA**

Name	Execution Date
ELLIOTT BROWN	11/08/2019
WEIDONG ZHANG	11/08/2019

#### **RECEIVING PARTY DATA**

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# **PROPERTY NUMBERS Total: 2**

Property Type	Number
Application Number:	15714749
Application Number:	62398950

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ATTORNEY DOCKET NUMBER: 50370-0006-US **NAME OF SUBMITTER:** JENNIFER S. WARNER SIGNATURE: /Jennifer S. Warner/ **DATE SIGNED:** 11/12/2019

**Total Attachments: 3** 

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> **PATENT** REEL: 050981 FRAME: 0476 505768565

Attorney Docket No.: 50370-0006-US

Inventors: Brown et al.

Application Title: Gallium Nitride Cross-Gap Light Emitters Based on Unipolar-Doped

**Tunneling Structures** 

# ASSIGNMENT OF APPLICATION

This ASSIGNMENT AGREEMENT ("Assignment") is made by and between Elliott

Brown and Weidong Zhang (the "Inventors") and Wright State University whose street address
is 3640 Colonel Glenn Highway, Dayton, OH 45435 (the "Assignee") regarding a patent
application titled GALLIUM NITRIDE CROSS-GAP LIGHT EMITTERS BASED ON
UNIPOLAR-DOPED TUNNELING STRUCTURES.

WHEREAS, the Inventor(s) have invented one or more inventions disclosed and/or claimed in the Application (the "Inventions") filed in the United States Patent and Trademark Office ("USPTO") on September 25, 2017 and given U.S. Patent Application No. 15/714,749 and which claims the benefit or priority of U.S. Provisional Application No. 62/398,950 filed on September 25, 2017.

WHEREAS, Assignee, together with its successors and assigns, and further in accordance with such agreement(s) as may have been previously entered into with the Inventor(s), desires to acquire, and/or the evidence the acquisition of, the entire right, title and interest in and to the Inventions and to the Applications (as defined herein).

NOW, THEREFORE, the parties agree as follows:

For good and valuable consideration from the Assignee to the Inventor(s) the receipt of which is hereby acknowledged, and in accordance with such agreements as may exist between them, Inventors have conveyed, assigned, transferred, and set over, and hereby do convey, assign, transfer and set over unto the Assignee, the entire and exclusive right, title and interest in and to the Inventions and all patents that may be granted therefor in the United States and in all other countries, territories, and jurisdictions in the world (collectively, the "Countries"), and to all existing or future related applications, divisions, substitutes, renewals, reissues, continuing applications, conversions, re-examinations, extensions, and any resulting patents thereof in all Countries (collectively, the "Applications") for the full terms for which the same may be granted and any rights associated therewith, including, but not limited to, any and all royalties, profits,

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damages, fees, income, payments, and other proceeds now or hereafter due or payable, and to the

right to claim benefit and priority from the Applications in all of the Countries thereon.

Inventors hereby authorize and request the Commissioner for Patents of the United States

and any official of any foreign country whose duty it is to issue patents on the Applications as

described above, to issue all Letters Patent for this Invention to Assignee in accordance with the

terms of this assignment;

Inventors hereby covenant that they have the full right to convey all rights and interests

assigned by this Assignment, that there are no rights or interests outstanding inconsistent with the

rights and interests granted herein, and that we have not and will not execute any instrument or

grant or transfer any rights or interests inconsistent with the rights and interests granted herein.

Inventors hereby further covenant and agree that [I/we] will, without further consideration,

communicate with Assignee any facts known to us respecting this invention, and testify in any legal

proceeding, sign all lawful papers that may be necessary or desirable to perfect the title to this

invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue

applications, make all rightful oaths and generally do everything possible to aid assignee, its

successors and assigns, to obtain and enforce Letters Patent for this invention in the United States

and any foreign country, it being understood that any expense incident to the execution of such

papers shall be borne by the assignee, its successors and assigns.

This Assignment inures to the benefit of the Assignee and its successors, assigns, and

other legal representatives, and is binding on the Inventor(s) and their respective heirs, legal

representatives, and assigns.

The Inventor(s) hereby grant(s) Assignee or its legal representative the power to insert on

this Assignment any further identification information, including an application number and filing

date, which may be necessary or desirable.

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IN WITNESS WHEREOF and INTENDING TO BE LEGALLY BOUND, we hereunto set our hands having read and understood this Assignment.

Elliott R. BROWN

ERBLUM 8164, 2

Date

William Than 11/08/0019

Date

Witness

Date

Weidong ZHANG

162/2019 thang \$1/08/2019

Witness

Dale

Witness

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