PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT2636394 Stylesheet Version v1.2 SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT CONVEYING PARTY DATA Name Execution Date CHIH-KUANG YU 11/26/2013 HUNG-YI KUO 11/18/2013 **RECEIVING PARTY DATA** TSMC SOLID STATE LIGHTING LTD. Name: Street Address: 9, LI-HSIN 4TH ROAD Internal Address: HSINCHU SCIENCE PARK HSINCHU City: State/Country: TAIWAN **PROPERTY NUMBERS Total: 1** Property Type Number Application Number: 14096420 CORRESPONDENCE DATA (214)200-0853 Fax Number: Phone: 214-651-5000 Email: ipdocketing@haynesboone.com Correspondence will be sent via US Mail when the email attempt is unsuccessful. Correspondent Name: HAYNES AND BOONE, LLP IP SECTION 2323 VICTORY AVENUE Address Line 1: SUITE 700 Address Line 2: Address Line 4: DALLAS, TEXAS 75219 ATTORNEY DOCKET NUMBER: 48047.165 NAME OF SUBMITTER: ERIC Q. LI Signature: /Eric Q. Li/ 12/04/2013 Date:

Total Attachments: 2

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Docket No.: 2011-0187-C /48047.165 Customer No.: 42717

ASSIGNMENT

WHEREAS, we,

(1)	Chih-Kuang Yu	of	No. 6, Ln. 43, Heping Rd., East District Chiayi City, Taiwan, R.O.C. 600
(2)	Hung-Yi Kuo	of	1F., No. 29, Ln. 169, Leye St., Daan District Taipei City, Taiwan, R.O.C. 106

have invented certain improvements in

WAFER LEVEL PHOTONIC DEVICE DIE STRUCTURE AND METHOD OF MAKING THE SAME

for which we have executed an application for Letters Patent of the United States of America,

X	of even date filed herewith	; and		
	filed on	and assigned application number	 •	_; and

WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, TSMC Solid State Lighting Ltd., 9, Li-Hsin 4th Rd., HsinChu Science Park, HsinChu, Taiwan, ROC. is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional,

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continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Inventor Name: Chih-Kuang Yu Residence Address: No. 6, Ln. 43, Heping Rd., East District Chiayi City, Taiwan, R.O.C. 600 Dated: 111.2612013 Inventor Signature Inventor Name: Hung-Yi Kuo Residence Address: 1F., No. 29, Ln. 169, Leye St., Daan District Taipei City, Taiwan, R.O.C. 106 Dated: 11/18/13 345572 1 Page 2 of 2 PATENT REEL: 031714 FRAME: 0124 **RECORDED: 12/04/2013**