

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5292504

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FUJIO MASUOKA	11/28/2018
NOZOMU HARADA	11/26/2018
HIROKI NAKAMURA	12/05/2018
MIN SOO KIM	11/26/2018
ZHENG TAO	11/26/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	UNISANTIS ELECTRONICS SINGAPORE PTE. LTD.
<b>Street Address:</b>	111 NORTH BRIDGE ROAD, #16-04
<b>Internal Address:</b>	PENINSULA PLAZA
<b>City:</b>	SINGAPORE
<b>State/Country:</b>	SINGAPORE
<b>Postal Code:</b>	179098
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16225804
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Phone:</b>	3123214200
<b>Email:</b>	usassignments@brinksgilson.com, thorie@brinksgilson.com, modonnell@brinksgilson.com
<b>Correspondent Name:</b>	TADASHI HORIE
<b>Address Line 1:</b>	PO BOX 10395
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60610
<b>ATTORNEY DOCKET NUMBER:</b>	13773-306
<b>NAME OF SUBMITTER:</b>	TADASHI HORIE
<b>SIGNATURE:</b>	/Tadashi Horie/
<b>DATE SIGNED:</b>	12/19/2018

**Total Attachments: 5**

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**ASSIGNMENT**

WHEREAS, Fujio MASUOKA, Nozomu HARADA, Hiroki NAKAMURA, Min Soo KIM and Zheng TAO, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled PILLAR-SHAPED SEMICONDUCTOR DEVICE AND METHOD FOR PRODUCING THE SAME, executed by Assignors on the same date as, or on a date prior to, this Assignment;

WHEREAS, Unisantis Electronics Singapore Pte. Ltd., a corporation organized and existing under the laws of Singapore, having a place of business at 111, North Bridge Road, #16-04, Peninsula Plaza, Singapore 179098, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or

any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATE: Nov. 28, 2018 Fujio Masuoka  
Fujio MASUOKA

WITNESSED:  
DATE: Nov. 28, 2018 [Signature]

DATE: \_\_\_\_\_

DATE: Nov. 26, 2018 Nozomu Ikarada  
Nozomu IKARADA

WITNESSED:  
DATE: Nov 26, 2018 [Signature]

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_  
Hiroki NAKAMURA

WITNESSED:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_  
Min Soo KIM

WITNESSED:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

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IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATE: \_\_\_\_\_  
WITNESSED: \_\_\_\_\_ Fujio MASUOKA

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_  
WITNESSED: \_\_\_\_\_ Nozomu HARADA

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: 5 Dec 2018 \_\_\_\_\_  
WITNESSED: \_\_\_\_\_ Hiroki NAKAMURA

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_  
WITNESSED: \_\_\_\_\_ Min Soo KIM

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

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DATE: \_\_\_\_\_  
WITNESSED: \_\_\_\_\_  
Fujio MASUOKA

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

WITNESSED: \_\_\_\_\_  
Nozomu HARADA

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

WITNESSED: \_\_\_\_\_  
Hiroki NAKAMURA

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: 26 / NOV / 2018  
WITNESSED: \_\_\_\_\_  
Min Soo KIM

DATE: 26 / NOV / 2018

DATE: 26 / Nov / 2018

DATE: 2018/11/26

Taozheng  
Zheng TAO

WITNESSED:

DATE: 2018/11/26

DAN MOCUTA [Signature]

DATE: 2018/11/26

Min So Kim Min Kim