

# PATENT ASSIGNMENT

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT																
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT																
<b>CONVEYING PARTY DATA</b>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr><td>Shouli Steve HSIA</td><td>07/13/2011</td></tr> <tr><td>Chih-Kuang YU</td><td>06/15/2011</td></tr> <tr><td>Ken Wen -Chien FU</td><td>07/13/2011</td></tr> <tr><td>Hung-Yi KUO</td><td>06/15/2011</td></tr> <tr><td>Hung-Chao KAO</td><td>06/15/2011</td></tr> <tr><td>Ming-Feng WU</td><td>06/17/2011</td></tr> <tr><td>Fu-Chih YANG</td><td>06/17/2011</td></tr> </tbody> </table>		Name	Execution Date	Shouli Steve HSIA	07/13/2011	Chih-Kuang YU	06/15/2011	Ken Wen -Chien FU	07/13/2011	Hung-Yi KUO	06/15/2011	Hung-Chao KAO	06/15/2011	Ming-Feng WU	06/17/2011	Fu-Chih YANG	06/17/2011
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<b>RECEIVING PARTY DATA</b>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td><b>Name:</b></td><td>TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.</td></tr> <tr><td><b>Street Address:</b></td><td>No. 8, Li-Hsin Rd. VI, Hsinchu Science Park</td></tr> <tr><td><b>City:</b></td><td>Hsinchu</td></tr> <tr><td><b>State/Country:</b></td><td>TAIWAN</td></tr> <tr><td><b>Postal Code:</b></td><td>300</td></tr> </table>		<b>Name:</b>	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.	<b>Street Address:</b>	No. 8, Li-Hsin Rd. VI, Hsinchu Science Park	<b>City:</b>	Hsinchu	<b>State/Country:</b>	TAIWAN	<b>Postal Code:</b>	300						
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<b>CORRESPONDENCE DATA</b>																	
Fax Number: (703)518-5499 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 7036841111 Email: sramunto@ipfirm.com Correspondent Name: Lowe Hauptman Ham & Berner, LLP (TSMC) Address Line 1: 1700 Diagonal Road, Suite 300 Address Line 4: Alexandria, VIRGINIA 22314																	
<b>ATTORNEY DOCKET NUMBER:</b>	T5057-Y477																

OP \$40.00 13167878

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**PATENT**  
**REEL: 026816 FRAME: 0422**

NAME OF SUBMITTER:

Randy A. Noranbrock

Total Attachments: 2

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## ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- |                      |                  |
|----------------------|------------------|
| 1) Shouli Steve HSIA | 5) Hung-Chao KAO |
| 2) Chih-Kuang YU     | 6) Ming-Feng WU  |
| 3) Ken Wen-Chien FU  | 7) Fu-Chih YANG  |
| 4) Hung-Yi KUO       |                  |

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

**TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.** having a place of business at **No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu 300, Taiwan R.O.C.**

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

### LED STRUCTURE

(a) for which an application for United States Letters Patent was filed on 6-24-2011, and identified by United States Patent Application No. 13/167,878; or

(b) for which an application for United States Letters Patent was executed on \_\_\_\_\_,

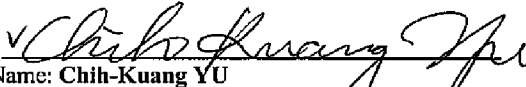
and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1)   
Name: Shouli Steve HSIA

✓ 4/13/2011  
Date:

2)   
Name: Chih-Kuang YU

✓ 06/15/2011  
Date:

3)   
Name: Ken Wen-Chien FU

✓ 7/13/2011  
Date:

4) ✓ 郭鴻安  
Name: Hung-Yi KAO

✓ 5/15 '11  
Date:

5) ✓ 高紹豪  
Name: Hung-Chao KAO

✓ 6/15 '11  
Date:

6) ✓ 吳銘奉  
Name: Ming-Feng WU

✓ 6/17 '11  
Date:

7) ✓ Fu-Chih Yang  
Name: Fu-Chih YANG

✓ 6/17, 11  
Date: