

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Ziwei FANG	12/23/2010
Jeff J. XU	12/23/2010
Ming-Jie HUANG	12/23/2010
Yimin HUANG	12/23/2010
Zhiqiang WU	12/24/2010
Min CAO	12/24/2010
<b>RECEIVING PARTY DATA</b>	
<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
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12981610
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)518-5499
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	7036841111
<b>Email:</b>	sramunto@ipfirm.com
<b>Correspondent Name:</b>	Lowe Hauptman Ham & Bemer, LLP (TSMC)
<b>Address Line 1:</b>	1700 Diagonal Road, Suite 300
<b>Address Line 4:</b>	Alexandria, VIRGINIA 22314
<b>ATTORNEY DOCKET NUMBER:</b>	T5057-Y363U
<b>NAME OF SUBMITTER:</b>	Yoon S. Ham

OP \$40.00 12981610

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) Ziwei FANG
- 2) Jeff J. XU
- 3) Ming-Jie HUANG
- 4) Yimin HUANG
- 5) Zhiqiang WU
- 6) Min CAO

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

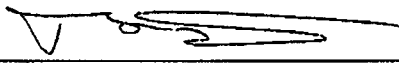
**METHOD OF MANUFACTURING SOURCE/DRAIN STRUCTURES**

- (a) for which an application for United States Letters Patent was filed on 12-30-10, and identified by United States Patent Application No. 12/981,610; 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: Ziwei FANG

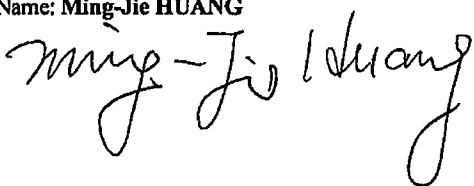
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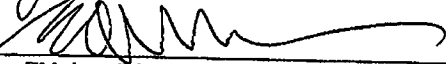
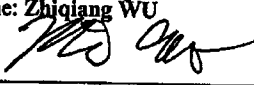
2)   
Name: Jeff J. XU

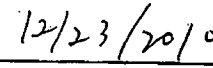
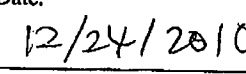
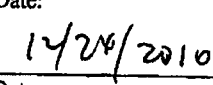
12/23/2010  
Date:

3) \_\_\_\_\_  
Name: Ming-Jie HUANG

\_\_\_\_\_  
Date: 12/23/2010



- 4)   
Name: Ximin HUANG
- 5)   
Name: Zhiqiang WU
- 6)   
Name: Min CAO

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Date: 12/23/2010
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Date: 12/24/2010
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Date: 12/24/2010