

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<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>Da-Wen Lin</td> <td>02/23/2007</td> </tr> <tr> <td>Ying-Shiou Lin</td> <td>02/27/2007</td> </tr> <tr> <td>Shyh-Wei Wang</td> <td>03/01/2007</td> </tr> <tr> <td>Li-Ping Huang</td> <td>02/27/2007</td> </tr> <tr> <td>Ying-Keung Leung</td> <td>03/19/2007</td> </tr> <tr> <td>Carlos H. Diaz</td> <td>03/01/2007</td> </tr> </tbody> </table>		Name	Execution Date	Da-Wen Lin	02/23/2007	Ying-Shiou Lin	02/27/2007	Shyh-Wei Wang	03/01/2007	Li-Ping Huang	02/27/2007	Ying-Keung Leung	03/19/2007	Carlos H. Diaz	03/01/2007
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Ying-Keung Leung	03/19/2007														
Carlos H. Diaz	03/01/2007														
<b>RECEIVING PARTY DATA</b>															
<b>Name:</b>	Taiwan Semiconductor Manufacturing Company, Ltd.														
<b>Street Address:</b>	No. 8, Li-Hsin Rd. 6														
<b>Internal Address:</b>	Science-Based Industrial Park														
<b>City:</b>	Hsin-Chu														
<b>State/Country:</b>	TAIWAN														
<b>Postal Code:</b>	300-77														
<b>PROPERTY NUMBERS Total: 1</b>															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td><b>Application Number:</b></td> <td>11731963</td> </tr> </tbody> </table>		Property Type	Number	<b>Application Number:</b>	11731963										
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<b>Application Number:</b>	11731963														
<b>CORRESPONDENCE DATA</b>															
<b>Fax Number:</b>	(972)732-9218														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
<b>Phone:</b>	972-732-1001														
<b>Email:</b>	engeldahl@slater-matsil.com														
<b>Correspondent Name:</b>	Slater & Matsil, L.L.P.														
<b>Address Line 1:</b>	17950 Preston Road, Suite 1000														
<b>Address Line 4:</b>	Dallas, TEXAS 75252														
<b>ATTORNEY DOCKET NUMBER:</b>	TSM06-0245														

CH \$40.00 11731963

NAME OF SUBMITTER:

Kristy J. Engeldahl

Total Attachments: 3

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**ASSIGNMENT**

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC), a corporation organized and existing under the laws of Taiwan, the Republic of China, with its principal office at No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C., is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TSMC, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TSMC, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to TSMC, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TSMC, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TSMC, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year:

TITLE OF INVENTION	<i>Gated Diode with Non-Planar Source Region</i>			
SIGNATURE OF INVENTOR AND NAME	<i>Da-Wen Lin</i> Da-Wen Lin	<i>Ying-Shiou Lin</i> Ying-Shiou Lin	<i>Shyh-Wei Wang</i> Shyh-Wei Wang	<i>Li-Ping Huang</i> Li-Ping Huang
DATE	<i>Feb. 23, 2007</i>	<i>Feb. 27, 2007</i>	<i>Mar. 1, 2007</i>	<i>Feb. 27, 2007</i>
RESIDENCE (City, County, State)	Taiping City, 411 Taiwan, R.O.C.	Hsinchu City, 300 Taiwan, R.O.C.	Hsin-Chu, 300-77 Taiwan, R.O.C.	Taipei City, 106 Taiwan, R.O.C.

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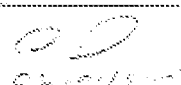
WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd (TSMC), a corporation organized and existing under the laws of Taiwan, the Republic of China, with its principal office at No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C., is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TSMC, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TSMC, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith

I also hereby sell and assign to TSMC, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

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IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year:

TITLE OF INVENTION	<i>Gated Diode with Non-Planar Source Region</i>		
SIGNATURE OF INVENTOR AND NAME	Ying-Kuang Leung	 Carlos H. Diaz	
DATE		 6/21/2006	
RESIDENCE (City, County, State)	Taipei City, 106 Taiwan, R.O.C.	Mountain View, CA, US	

**ASSIGNMENT**

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

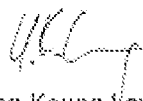
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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TSMC, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted thereon, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TSMC as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

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TITLE OF INVENTION	<i>Gated Diode with Non-Planar Source Region</i>			
SIGNATURE OF INVENTOR AND NAME	 Ying-Keung Leung	Carlos H. Diaz		
DATE	3.19.2007			
RESIDENCE (City, County, State)	Taipei City, 106 Taiwan, R.O.C.	Mountain View, CA, US		