

**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>Chen-Hua Yu</td> <td>05/18/2006</td> </tr> <tr> <td>Minghsing Tsai</td> <td>05/18/2006</td> </tr> <tr> <td>Yi-Li Hsiao</td> <td>05/19/2006</td> </tr> </tbody> </table>		Name	Execution Date	Chen-Hua Yu	05/18/2006	Minghsing Tsai	05/18/2006	Yi-Li Hsiao	05/19/2006
Name	Execution Date								
Chen-Hua Yu	05/18/2006								
Minghsing Tsai	05/18/2006								
Yi-Li Hsiao	05/19/2006								
<b>RECEIVING PARTY DATA</b>									
<b>Name:</b>	Taiwan Semiconductor Manufacturing Co., Ltd.								
<b>Street Address:</b>	No. 8, Li-Hsin Road 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>Application Number:</td> <td>11419933</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11419933				
Property Type	Number								
Application Number:	11419933								
<b>CORRESPONDENCE DATA</b>									
<b>Fax Number:</b>	(215)979-1020								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
<b>Phone:</b>	(215) 215-1250								
<b>Email:</b>	sekoffs@duanemorris.com								
<b>Correspondent Name:</b>	Steven E. Koffs, Duane Morris LLP								
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<b>Address Line 4:</b>	Philadelphia, PENNSYLVANIA 19103-4196								
<b>ATTORNEY DOCKET NUMBER:</b>	N1085-00433								
<b>NAME OF SUBMITTER:</b>	Steven E. Koffs								
<b>Total Attachments: 2</b> source=assignment#page1.tif									

CH \$40.00 11419933



Serial No. 11/419,933

Filed: May 23, 2006

**ATTORNEY DOCKET NO. 2006.0095/1085.00433****ASSIGNMENT AND AGREEMENT**

For value received, we, **Chen-Hua Yu, Mingsing Tsai, and Yi-Li Hsiao**, hereby sell, assign and transfer to **Taiwan Semiconductor Manufacturing Co., Ltd.**, with its principal place of business located at No. 8, Li-Hsin Road 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, Republic of China, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **PROCESS APPARATUSES** described in a non-provisional application for Letters Patent of the United States and provisional Application Serial No. 60/747,442 filed on May 17, 2006 and all the rights and privileges in said applications, and under any and all Letters Patent and any divisions, continuations, continuations-in-part, reexamination certificates, reissues, and extensions thereof, or claiming priority therefrom that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Taiwan Semiconductor Manufacturing Co., Ltd. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Taiwan Semiconductor Manufacturing Co., Ltd. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Taiwan Semiconductor Manufacturing Co., Ltd. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Taiwan Semiconductor Manufacturing Co., Ltd. in the United States and in all countries foreign to the United States, or to such nominees as Taiwan Semiconductor Manufacturing Co., Ltd. may designate.

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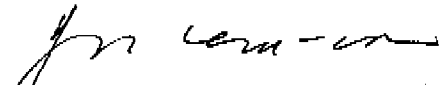
**PATENT  
REEL: 017676 FRAME: 0964**

**ATTORNEY DOCKET NO. 2006.0095/1085.00433**

We agree that, when requested, we shall, without charge to Taiwan Semiconductor Manufacturing Co., Ltd. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Inventor No. 1

Dated: 5/18/06

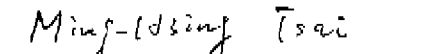
  
Chen-Hua Yu

Residence:

**No. 3, 38 Waterfront Road 2, Hsin-Chu, Taiwan, R.O.C.**

Inventor No. 2

Dated: 5/8, 2006

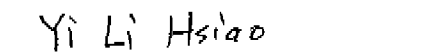
  
Minghsing Tsai

Residence:

**188, ShengLi 7<sup>th</sup> Street, 1<sup>st</sup> Sec. 6 F, Chu-Pei City, Taiwan, R.O.C.**

Inventor No. 3

Dated: 5/9 2006

  
Yi-Li Hsiao

Residence:

**5 F, No. 3, Lane 142, Guandong Road, Hsinchu City 300, Taiwan, R.O.C.**

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