

**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>Tai-Yung Yu</td> <td>12/12/2007</td> </tr> <tr> <td>Yu-Sheng Su</td> <td>12/12/2007</td> </tr> <tr> <td>Li Te Hsu</td> <td>12/12/2007</td> </tr> <tr> <td>Jin Lin Liang</td> <td>12/12/2007</td> </tr> <tr> <td>Shih Cheng Yeh</td> <td>12/12/2007</td> </tr> <tr> <td>Pin Chia Su</td> <td>12/12/2007</td> </tr> </tbody> </table>		Name	Execution Date	Tai-Yung Yu	12/12/2007	Yu-Sheng Su	12/12/2007	Li Te Hsu	12/12/2007	Jin Lin Liang	12/12/2007	Shih Cheng Yeh	12/12/2007	Pin Chia Su	12/12/2007
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<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><b>Application Number:</b></td> <td>11963040</td> </tr> </tbody> </table>		Property Type	Number	<b>Application Number:</b>	11963040										
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<b>Application Number:</b>	11963040														
<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>															
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<b>ATTORNEY DOCKET NUMBER:</b>	N1085-00531														

**CH \$40.00 11963040**

NAME OF SUBMITTER:

Steven E. Koffs

Total Attachments: 3

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Serial No. 11/963,040

Filed: 12/21/2007

ATTORNEY DOCKET NO.: 2007.0407/1085.531

## ASSIGNMENT AND AGREEMENT

For value received, we, **Tai-Yung Yu, Yu-Sheng Su, Li Te Hsu, Jin Lia Liang, Shih Cheng Yeh, and Pin Chia Su** 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 **METHOD AND SYSTEM FOR IMPROVING WET CHEMICAL BATH PROCESS STABILITY AND PRODUCTIVITY IN SEMICONDUCTOR MANUFACTURING** described in a non-provisional application for Letters Patent of the United States and in Provisional Application No. 60/995,805 filed September 28, 2007 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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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: 2007/12/12

Tai-Yung Yu

Tai-Yung Yu

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Dated: 2007/12/12

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Yu-Sheng Su

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Inventor No. 3

Dated: 2007/12/12

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Li Te Hsu

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ATTORNEY DOCKET NO.: 2007.0407/1085.531

Inventor No. 4

Dated: 2007.12.12

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Jin Lin Liang

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Dated: 2007.12.12

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Shih Cheng Yeh

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Inventor No. 6

Dated: Dec/12-'07

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Pin Chia Su

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