

**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>Hsien-Wei Chen</td> <td>07/21/2006</td> </tr> <tr> <td>Anbiarschy Wu</td> <td>07/21/2006</td> </tr> <tr> <td>Shih-Hsun Hsu</td> <td>07/21/2006</td> </tr> <tr> <td>Shang-Yun Hou</td> <td>07/21/2006</td> </tr> <tr> <td>Hsueh-Chung Chen</td> <td>07/21/2006</td> </tr> <tr> <td>Shin-Puu Jeng</td> <td>07/21/2006</td> </tr> </tbody> </table>		Name	Execution Date	Hsien-Wei Chen	07/21/2006	Anbiarschy Wu	07/21/2006	Shih-Hsun Hsu	07/21/2006	Shang-Yun Hou	07/21/2006	Hsueh-Chung Chen	07/21/2006	Shin-Puu Jeng	07/21/2006
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Hsueh-Chung Chen	07/21/2006														
Shin-Puu Jeng	07/21/2006														
<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><b>Application Number:</b></td> <td>11458501</td> </tr> </tbody> </table>		Property Type	Number	<b>Application Number:</b>	11458501										
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<b>Application Number:</b>	11458501														
<b>CORRESPONDENCE DATA</b>															
<b>Fax Number:</b>	(215)979-1020														
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<b>ATTORNEY DOCKET NUMBER:</b>	N1085-00379														

CH \$40.00 11458501

NAME OF SUBMITTER:

Steven E. Koffs

Total Attachments: 3

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Serial No. 11/458,501  
Filed: 07/19/2006

**ATTORNEY DOCKET NO. 2005.0737/1085.379**

### **ASSIGNMENT AND AGREEMENT**

For value received, we, **Hsien-Wei Chen, Anbiarshy Wu, Shih-Hsun Hsu, Shang-Yun Hou, Hsueh-Chung Chen, and Shin-Puu Jeng**, 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 **PAD STRUCTURE DESIGN WITH REDUCED DENSITY** described in an application for Letters Patent of the United States and all the rights and privileges in said application, 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: 018308 FRAME: 0990**

## ATTORNEY DOCKET NO. 2005.0737/1085.379

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: ✓ 2006.7.21

✓ Hsien-Wei Chen  
Hsien-Wei Chen

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Dated: ✓ 2006.7.21

✓ Anbiarshy Wu  
Anbiarshy Wu

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Inventor No. 3

Dated: ✓ 2006.7.21

✓ Shih-Hsun Hsu  
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Inventor No. 4

Dated: ✓ 2006.7.21

✓ Shang-Yun Hou  
Shang-Yun Hou

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Inventor No. 5

Dated: ✓ July 21, 2006

✓ Hsueh-Chung Chen  
Hsueh-Chung Chen

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Inventor No. 6

Dated: ✓ 2006.7.21

✓ Shin-Puu Jeng  
Shin-Puu Jeng

Residence:

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