

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Chin-An CHEN</td> <td>11/08/2011</td> </tr> <tr> <td>Pei-Tzu WU</td> <td>11/08/2011</td> </tr> <tr> <td>Tsung-Chieh TSAI</td> <td>11/08/2011</td> </tr> <tr> <td>Juing-Yi WU</td> <td>11/08/2011</td> </tr> <tr> <td>Jyh-Kang TING</td> <td>11/08/2011</td> </tr> </tbody> </table>		Name	Execution Date	Chin-An CHEN	11/08/2011	Pei-Tzu WU	11/08/2011	Tsung-Chieh TSAI	11/08/2011	Juing-Yi WU	11/08/2011	Jyh-Kang TING	11/08/2011
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RECEIVING PARTY DATA													
Name:	Taiwan Semiconductor Manufacturing Co., Ltd.												
Street Address:	No. 8, Li-Hsin Road 6												
Internal Address:	Science-Based Industrial Park												
City:	Hsin-Chu												
State/Country:	TAIWAN												
Postal Code:	300-77												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13285528</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13285528								
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Application Number:	13285528												
CORRESPONDENCE DATA													
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ATTORNEY DOCKET NUMBER:	N1085-00873												

CH \$40.00 13285528

NAME OF SUBMITTER:

Mark J. Marcelli

Total Attachments: 3

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ATTORNEY DOCKET NO.: 2011.0856/1085.873

ASSIGNMENT AND AGREEMENT

For value received, we, **Chin-An CHEN, Pei-Tzu WU, Tsung-Chieh TSAI, Juing-Yi WU and Jyh-Kang TING**, hereby 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, SYSTEM AND SOFTWARE FOR ACCESSING DESIGN RULES AND LIBRARY OF DESIGN FEATURES WHILE DESIGNING SEMICONDUCTOR DEVICE LAYOUT**, described in a non-provisional patent application **Serial No. 13/285,528 filed October 31, 2011**, 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.

ATTORNEY DOCKET NO.: 2011.0856/1085.873

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: ✓ 11/8/2011

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Dated: ✓ 11/8/2011

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Dated: ✓ 11/8/2011

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Dated: ✓ 11/8, 2011

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Dated: ✓ 11/8, 2011

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