

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-Ming LIN</td> <td>04/18/2012</td> </tr> <tr> <td>Wan-Lai CHEN</td> <td>04/18/2012</td> </tr> <tr> <td>Chia-Hung HUANG</td> <td>04/18/2012</td> </tr> <tr> <td>Chi-Ming YANG</td> <td>04/18/2012</td> </tr> <tr> <td>Chin-Hsiang LIN</td> <td>04/18/2012</td> </tr> </tbody> </table>		Name	Execution Date	Chin-Ming LIN	04/18/2012	Wan-Lai CHEN	04/18/2012	Chia-Hung HUANG	04/18/2012	Chi-Ming YANG	04/18/2012	Chin-Hsiang LIN	04/18/2012
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CORRESPONDENCE DATA													
<p>Fax Number: (215)689-4905 Phone: 215-979-1000 Email: jsjulianti@duanemorris.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: DUANE MORRIS LLP (TSMC) IP DEPARTMENT Address Line 1: 30 SOUTH 17TH STREET Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103-4196</p>													
ATTORNEY DOCKET NUMBER:	N1085-01000												

NAME OF SUBMITTER:

Christopher J. Tyson

Total Attachments: 3

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Serial No. 13/449,721
filed April 18, 2012

ATTORNEY DOCKET NO.: 2011.1395/1085.01000

ASSIGNMENT AND AGREEMENT

For value received, we, **Chin-Ming LIN, Wan-Lai CHEN, Chia-Hung HUANG, Chi-Ming YANG and Chin-Hsiang LIN**, 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 **METHODS FOR FABRICATING AND ORIENTING SEMICONDUCTOR WAFERS**, described in a non-provisional 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.

ATTORNEY DOCKET NO.: 2011.1395/1085.01000

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: 4/18/2012 Chin Ming Lin
Chin-Ming LIN

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Inventor No. 2

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Inventor No. 3

Dated: 4/18/12 Chia-Hung Huang
Chia-Hung HUANG

Residence:

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ATTORNEY DOCKET NO.: 2011.1395/1085.01000

Inventor No. 4

Dated: 4/18/2012

Chi-Ming Yang
Chi-Ming YANG

Residence:

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Inventor No. 5

Dated: 4/18/2012

Chin-Hsiang LIN
Chin-Hsiang LIN

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