

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
<b>CONVEYING PARTY DATA</b>																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Chun-Wen NIEH</td> <td>07/07/2010</td> </tr> <tr> <td>Hung-Chang HSU</td> <td>07/07/2010</td> </tr> <tr> <td>Wen-Chi TSAI</td> <td>07/07/2010</td> </tr> <tr> <td>Mei-Yun WANG</td> <td>07/07/2010</td> </tr> <tr> <td>Chii-Ming WU</td> <td>07/12/2010</td> </tr> <tr> <td>Wei-Jung LIN</td> <td>07/07/2010</td> </tr> <tr> <td>Chih-Wei CHANG</td> <td>07/07/2010</td> </tr> </tbody> </table>		Name	Execution Date	Chun-Wen NIEH	07/07/2010	Hung-Chang HSU	07/07/2010	Wen-Chi TSAI	07/07/2010	Mei-Yun WANG	07/07/2010	Chii-Ming WU	07/12/2010	Wei-Jung LIN	07/07/2010	Chih-Wei CHANG	07/07/2010
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<b>RECEIVING PARTY DATA</b>																	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.																
Street Address:	No. 8, Li-Hsin Rd. VI, Hsinchu Science Park																
City:	Hsinchu																
State/Country:	TAIWAN																
Postal Code:	300																
<b>PROPERTY NUMBERS Total: 1</b>																	
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12836026</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12836026												
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Application Number:	12836026																
<b>CORRESPONDENCE DATA</b>																	
Fax Number:	(703)518-5499																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
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OP \$40.00 12836026

NAME OF SUBMITTER:

Benjamin J. Hauptman

Total Attachments: 2

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### ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- |                   |                   |
|-------------------|-------------------|
| 1) Chun-Wen NIEH  | 5) Chii-Ming WU   |
| 2) Hung-Chang HSU | 6) Wei-Jung LIN   |
| 3) Wen-Chi TSAI   | 7) Chih-Wei CHANG |
| 4) Mei-Yun WANG   |                   |

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. having a place of business at No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu 300, Taiwan R.O.C.

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

METHOD FOR MAKING A DISILICIDE

- (a) for which an application for United States Letters Patent was filed on 7-14-10, and identified by United States Patent Application No. 12/836,026; or
- (b) for which an application for United States Letters Patent was executed on \_\_\_\_\_,

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) Chun-Wen Nieh  
Name: Chun-Wen NIEH

7.7.2010  
Date:

2) Hung-Chang Hsu  
Name: Hung-Chang HSU

7.7.2010  
Date:

3) Wen-Chi Tsai  
Name: Wen-Chi TSAI

7.7.2010  
Date:

4) Mei-Yun Wang  
Name: Mei-Yun WANG

7.7. 2010  
Date:

5) Chih-Ming Wu  
Name: Chih-Ming WU

7/20/10  
Date:

6) Wei-Jung Lin  
Name: Wei-Jung LIN

7.7. 2010  
Date:

Chih-Wei-Chang  
Name: Chih-Wei CHANG

7.7. 2010  
Date: