

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																						
NATURE OF CONVEYANCE:	ASSIGNMENT																						
CONVEYING PARTY DATA																							
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PROPERTY NUMBERS Total: 1																							
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CORRESPONDENCE DATA																							
Fax Number:	7035185499																						
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T5057-832

NAME OF SUBMITTER:

Randy A. Noranbrock

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) Shih-Chi LIN   | 6) Chih-Jen WU      |
| 2) Kun-Tai WU     | 7) Chen-Ming HUANG  |
| 3) You-Hua CHOU   | 8) Soon-Kang HUANG  |
| 4) Chih-Tsung LEE | 9) Chin-Hsiang CHAN |
| 5) Min Hao HONG   | 10) Chih-Yuan YANG  |

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

### POLISHING SYSTEM AND POLISHING METHOD

(a) for which an application for United States Letters Patent was filed on 2012-12-06, and identified by United States Patent Application No. 13/706,506; 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) ✓ Shih-chi Lin  
Name: Shih-Chi LIN

✓ 2012/11/22  
Date:

2) ✓ 吳坤泰 Kun Tai Wu  
Name: Kun-Tai WU

✓ 2012/11/22  
Date:

3) ✓ You Hua Chou  
Name: You-Hua CHOU

✓ Nov. 22, 2012  
Date:

4) ✓ Chih-Tsung Lee  
Name: Chih-Tsung LEE

✓ Nov. 26, 2012  
Date:

5) ✓ Min Hao Hong  
Name: Min Hao HONG

✓ 11/26/2012  
Date:

6) ✓ 吳仁 WU  
Name: Chih-Jen WU

✓ 11/26/2012  
Date:

7) ✓ Chen-Ming Huang  
Name: Chen-Ming HUANG

✓ 11/27/2012  
Date:

8) ✓ 黃金祥  
Name: Soon-Kang HUANG

✓ 11/27/2012  
Date:

9) ✓ Chin Hsiang Chan  
Name: Chin-Hsiang CHAN

✓ 11/22/2012  
Date:

10) ✓ 楊智淵  
Name: Chih-Yuan YANG

✓ 11/22/2012  
Date: