502520237 10/03/2013

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
CHEN-FA LU	07/28/2010	
CHENG-TING CHEN	07/28/2010	
JAMES HU	07/28/2010	
CHUNG-SHI LIU	07/28/2010	

RECEIVING PARTY DATA

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			

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14045440

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NAME OF SUBMITTER:	RANDY A. NORANBROCK
Signature:	/Randy A. Noranbrock/
Date:	10/03/2013

Total Attachments: 1

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PATENT

REEL: 031341 FRAME: 0126

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ASSIGNMENT

	In consideration	n of the premises an	d other good	l and valuable	consideration	in hand paid	, the receipt a	and sufficiency	of
which is	s hereby acknowl	edged, the undersign	ed,						

1) Chen-Fa LU

4) Chung-Shi LIU

- 2) Cheng-Ting CHEN
- 3) James HU

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

SYSTEM AND METHOD TO REDUCE PRE-BACK-GRINDING PROCESS DEFECTS

- (a) for which an application for United States Letters Patent was filed on 9-10-10 , and identified by United States Patent Application No. 12/879,278; 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) Chen-Fa Lu
Name: Chen-Fa LU

2) Cheng-Ting - Chen
Name: Cheng-Ting CHEN

3) James Hu
Name: James HU

4) Many Shi, Many

2010 /07/18

Date:

2010 /07/28

Date:

Date:

Date:

Date:

PATENT REEL: 031341 FRAME: 0127

RECORDED: 10/03/2013