# 505869127 01/16/2020

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date	
CHI-WEN CHANG	10/25/2013	
HUI YU LEE	10/25/2013	
YA YUN LIU	10/25/2013	
JUI-FENG KUAN	10/25/2013	
YI-KAN CHENG	10/29/2013	

### **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:	16745171

### **CORRESPONDENCE DATA**

**Fax Number:** (703)518-5499

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ATTORNEY DOCKET NUMBER:	T5057-964D
NAME OF SUBMITTER:	RANDY A. NORANBROCK
SIGNATURE:	/Randy A. Noranbrock/
DATE SIGNED:	01/16/2020

**Total Attachments: 1** 

PATENT REEL: 051540 FRAME: 0830

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Docket No. T5057-964 TSMC2013-1166

## ASSIGNMENT

In consideration of the premises and other	good and valuable	consideration in he	and paid, the	receipt and suf	ficiency of
which is hereby acknowledged, the undersigned,			•	•	•

1) Chi-Wen CHANG

4) Jui-Feng KUAN

2) Hui Yu LEE

5) Yi-Kan CHENG

3) Ya Yun LIU

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, SYSTEM AND COMPUTER PROGRAM PRODUCT FOR DESIGNING

# (a) for which an application for United States Letters Patent was filed on \_\_2013-11-15 \_\_\_\_\_\_\_, and identified by United States Patent Application No. 14/080,892 \_\_\_\_\_\_\_; 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

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) Chi Ven Chang	20/3. 12 28-
Name: Chi-Wen CHANG	Date:
2) Hi Guter	2013. Oct. 25
Name: Hui Yu LEE	Date:
3) Jaym	Od. 25, 2013
Name: Ya/Yun LIU	Date:
4) Tui- Frong Yrean	0.ct 25.2013
Name: Jui-Feng KUAN	Date:
5) My SP 6-	(0,29.13
Name: Vi-Kan CHENG	Date:

PATENT REEL: 051540 FRAME: 0832

RECORDED: 01/16/2020