## 502709676 03/06/2014

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY	DATA			
		Name	Execution Date	
MING-CHENG HSU			02/14/2014	
RECEIVING PARTY	DATA			
Name:	TAIWAN SEM	IICONDUCTOR MANUFACTURING CO., LT	n	
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Internal Address:	SCIENCE-BASED INDUSTRIAL PARK			
City:	HSINCHU			
State/Country:	TAIWAN			
Postal Code:	300			
Property Type		Number		
Application Number: 1419		14192107		
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ATTORNEY DOCKET NUMBER:		NP-14332-US-B1(TLC0035)	NP-14332-US-B1(TLC0035)	
NAME OF SUBMITTER:				
NAME OF SUBMITTI	ER:	SUNIL RAVAL		

/Sunil Raval, Reg. No. 47,886/

03/06/2014

PATENT REEL: 032367 FRAME: 0701

Total Attachments: 2 source=00421659#page1.tif source=00421659#page2.tif

Signature:

Date:

## ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title)PROBE CARD				
The PATENT RIGHTS referred to in this agreement are:				
(check one) a patent application for this invention, executed by the ASSIGNOR(S)				
concurrently with this assignment.				
XU.S. patent application Serial No. 14/192,107 filed February 27, 2014				
☐a U.S. patent application based on PCT International Application				
Nofiled on (date)(U.S. patent application				
Serial No, if known).				
U.S. patent No, issued				
The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of				
the patents and patent applications identified above.				
The PATENT RIGHTS assigned under this agreement are:				
(check one) ⊠U.S. patent rights only.				
Worldwide patent rights. In this case, the assignee shall have the right to				
claim the benefit of the filing date of any U.S. or foreign patent application				
for this invention.				
The ASSIGNOR(S) referred to in this agreement is (or are) the inventor(s) whose signatures				
appear on page 2 of this Assignment and any Supplemental Sheet(s).				
The ASSIGNEE referred to in this agreement is:				
(Name of Assignee) TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.				
(Address) NO.8, LI-HSIN RD.6, SCIENCE-BASED INDUSTRIAL PARK, HSINCHU,				
TAIWAN 300, R.O.C.				
The ASSIGNEE is:				
(check one) An individual.				
A Partnership.				
☐ A Corporation of				
(other)				
The Addition of the Addition o				
The ASSIGNOR(S), in consideration of \$10.00 paid by the ASSIGNEE, and other good and				
valuable consideration, receipt of which is acknowledged, hereby assign(s) the following				
rights to the ASSIGNEE, its successors and assigns:				
the full and exclusive right to the invention;				
the entire right, title and interest in and to the PATENT RIGHTS;				
the right to sue and recover for any past infringement; and				
the right to claim priority under 35 USC 119, 35 USC 120, or any other applicable				

provisions, based on any earlier patent applications for this invention.

PATENT REEL: 032367 FRAME: 0702 THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO ASSIGNEE: TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. INVENTION TITLE: PROBE CARD

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademark to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives, any fact known to the ASSIGNOR(S) with respect to said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause and all Letter Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

The ASSIGNOR(S) authorize(s) the attorneys and agents who have the power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

Ming-Cheng HSU

Name of sole or first inventor

Signature

Date

PATENT REEL: 032367 FRAME: 0703

RECORDED: 03/06/2014