#### 503382754 07/08/2015

### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
YANGJAE SHIN	07/02/2015

#### **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:	14700563

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	T5057-1164
NAME OF SUBMITTER:	RANDY A. NORANBROCK
SIGNATURE:	/Randy A. Noranbrock/
DATE SIGNED:	07/08/2015

**Total Attachments: 1** 

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**PATENT** REEL: 036022 FRAME: 0594 503382754

# **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) YangJae SHIN

MANU 300, T its succ as defi	as made a certain new and useful invention, hereby sells, assigns and transfers unto TAIWAN SEMICONDUCTOR JFACTURING COMPANY, LTD., having a place of business at No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu aiwan R.O.C. cessors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America ned in 35 U.S.C. 100 in the invention entitled		
MET	HOD FOR LIBRARY HAVING BASE CELL AND VT-RELATED CELL		
(a)	for which an application for United States Letters Patent was filed on $\frac{2015-04-30}{}$ , and identified by United States Patent Application No. $\frac{14/700,563}{}$ ; or		
(b)	for which an application for United States Letters Patent was executed on,		
all Uni contine Proper	e undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and ited States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or sations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial ty to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned 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.			
1)	ED on the date indicated aside my signature:  TULY 2 2015  e: YangJae SHIN  Date:		

PATENT REEL: 036022 FRAME: 0595

**RECORDED: 07/08/2015**