

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5768730

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JYUH-FUH LIN	08/20/2014
CHENG-HUNG CHEN	08/21/2014
PEI-YI LIU	08/21/2014
WEN-CHUAN WANG	08/21/2014
SHY-JAY LIN	08/26/2014
BURN JENG LIN	08/29/2014
RECEIVING PARTY DATA	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Street Address:	NO. 8, LI-HSIN RD. 6
Internal Address:	SCIENCE-BASED INDUSTRIAL PARK
City:	HSIN-CHU
State/Country:	TAIWAN
Postal Code:	300-77
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16587006
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ATTORNEY DOCKET NUMBER:	20131459 /24061.2939US04
NAME OF SUBMITTER:	SVJETLANA LONG
SIGNATURE:	/Svjetlana Long/
DATE SIGNED:	10/14/2019

PATENT

Total Attachments: 3

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ASSIGNMENT

WHEREAS, we,

- | | | | |
|-----|-----------------|----|---|
| (1) | Jyuh-Fuh Lin | of | No. 8, Lane 41, Section 1, Huanshi Road
Chunan Township, Miaoli County 305
Taiwan, R.O.C. |
| (2) | Cheng-Hung Chen | of | 9F., No. 3, Liujia 8th Street, Zhubei City
Hsinchu County 302, Taiwan, R.O.C. |
| (3) | Pei-Yi Liu | of | No. 62, Lane 200, Zhuhe Road, Changhua City
Changhua County 500, Taiwan, R.O.C. |
| (4) | Wen-Chuan Wang | of | 3F.-2, No. 133, Jiangong 1st Road, East District
Hsinchu City 300, Taiwan, R.O.C. |
| (5) | Shy-Jay Lin | of | No. 15, Alley 36, Lane 134, Yuanshan Road
Jhudong Township, Hsinchu County 310
Taiwan, R.O.C. |
| (6) | Burn Jeng Lin | of | 153 Guang Fu Road, Section 1, Lane 89, 1st Floor
Hsinchu City, Taiwan, R.O.C. |

have invented certain improvements in

**METHOD OF FABRICATING AN INTEGRATED
CIRCUIT WITH A PATTERN DENSITY-OUTLIER-TREATMENT
FOR OPTIMIZED PATTERN DENSITY UNIFORMITY**

for which we have executed an application for Letters Patent of the United States of America,

_____ of even date filed herewith; and
 X filed on September 11, 2014, and assigned application number 14/483,893; and

WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd., (“TSMC”), No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77, Republic of China. is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said

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invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Inventor Name: Jyuh-Fuh Lin

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Dated: 20 Aug. 2014

Jyuh Fuh Lin
Inventor Signature

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Dated: 21st Aug, 2014

Cheng-Hung Chen
Inventor Signature

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Dated: 21. Aug. 2014

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Dated: 08/21/2014


Inventor Signature

Inventor Name: Shy-Jay Lin

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Dated: 8/26/2014


Inventor Signature

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Dated: 2014-8-29


Inventor Signature