

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT5503573

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the SPELLING OF THE ASSIGNEE TO: TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. previously recorded on Reel 044124 Frame 0226. Assignor(s) hereby confirms the ASSIGNOR(S) HEREBY CONFIRMS THE ASSIGNMENT..
CONVEYING PARTY DATA	
Name	Execution Date
ARYAN AFZALIAN	08/29/2014
RECEIVING PARTY DATA	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Street Address:	NO. 8, LI-HSIN RD. 6, SCIENCE-BASED INDUSTRIAL PARK
City:	HSIN-CHU
State/Country:	TAIWAN
Postal Code:	300-77
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15809738
CORRESPONDENCE DATA	
Fax Number:	(214)200-0853
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	2146515000
Email:	ipdocketing@haynesboone.com
Correspondent Name:	HAYNES AND BOONE,
Address Line 1:	2323 VICTORY AVENUE
Address Line 4:	DALLAS, TEXAS 75219
ATTORNEY DOCKET NUMBER:	24061.2933US02
NAME OF SUBMITTER:	JO EL MERCER
SIGNATURE:	/Jo El Mercer/
DATE SIGNED:	05/02/2019
Total Attachments: 6	
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ASSIGNMENT

WHEREAS, I,

(1) Aryan Afzalian of Rue de la Chapelle 33, 1450 Chastre, Belgium

have invented certain improvements in

LEAKAGE CURRENT SUPPRESSION METHODS AND RELATED STRUCTURES

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

 X of even date filed herewith; and
 filed on and assigned application number ; and

WHEREAS, I 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 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.

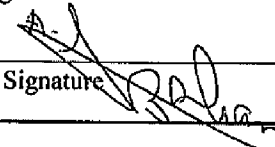
Docket No.: 2014-0709/24061.2933
Customer No.: 42717

Inventor Name: Aryan Afzalian

Residence Address: Rue de la Chapelle 33, 1450 Chastre, Belgium

Dated: 2014/08/29

Inventor Signature





United States Patent and Trademark Office

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
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Name:	TAIWAN SEMICONDCUTOR MANUFACTURING COMPANY, LTD.
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Property Type	Number
Application Number:	15809738
CORRESPONDENCE DATA	
Fax Number:	(214)200-0853
Phone:	214-651-5000

PATENT

Email: ipdocketing@haynesboone.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> Correspondent Name: HAYNES AND BOONE, LLP Address Line 1: 2323 VICTORY, SUITE 700 Address Line 4: DALLAS, TEXAS 75219	
ATTORNEY DOCKET NUMBER:	24061.2933US02
NAME OF SUBMITTER:	JO EL MERCER
Signature:	/Jo El Mercer/
Date:	11/14/2017
Total Attachments: 2 source=24061.2933US02 - Assignment (Parent), 4828-5151-2660_1#page1.tif source=24061.2933US02 - Assignment (Parent), 4828-5151-2660_1#page2.tif	
RECEIPT INFORMATION EPAS ID: PAT4688841 Receipt Date: 11/14/2017	

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EPAS ID: PAT4688841

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Name	Execution Date
ARYAN AFZALIAN	08/29/2014
RECEIVING PARTY DATA	
Name:	TAIWAN SEMICONDCUTOR MANUFACTURING COMPANY, LTD.
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Phone:	214-651-5000
Email:	ipdocketing@haynesboone.com
Correspondent Name:	HAYNES AND BOONE, LLP
Address Line 1:	2323 VICTORY. SUITE 700
Address Line 4:	DALLAS, TEXAS 75219
ATTORNEY DOCKET NUMBER:	24061.2933US02
NAME OF SUBMITTER:	JO EL MERCER
SIGNATURE:	/Jo El Mercer/
DATE SIGNED:	11/14/2017
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UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOVEMBER 15, 2017

PTAS

HAYNES AND BOONE, LLP
2323 VICTORY. SUITE 700
DALLAS, TX 75219

504642121

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/14/2017

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NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 24061.2933US02

ASSIGNOR:

AFZALIAN, ARYAN

DOC DATE: 08/29/2014

ASSIGNEE:

TAIWAN SEMICONDUCTOR MANUFACTURING
COMPANY, LTD.
NO. 8, LI-HSIN RD. 6, SCIENCE-BASED
INDUSTRIAL PARK
HSIN-CHU, TAIWAN 300-77

APPLICATION NUMBER: 15809738

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: LEAKAGE CURRENT SUPPRESSION METHODS AND RELATED STRUCTURES

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION