507496117 09/16/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7543007

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
CARLOS H. DIAZ	09/22/2015
CHUNG-CHENG WU	09/24/2015
CHIA-HAO CHANG	09/21/2015
CHIH-HAO WANG	09/21/2015
JEAN-PIERRE COLINGE	09/22/2015
CHUN-HSIUNG LIN	09/21/2015
WAI-YI LIEN	09/24/2015
YING-KEUNG LEUNG	09/21/2015

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:	17837899

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ATTORNEY DOCKET NUMBER:	2014-1253/24061.3068US06	
NAME OF SUBMITTER:	MARIA TEDESCO	

PATENT REEL: 061123 FRAME: 0439 507496117

SIGNATURE:	/Maria Tedesco/	
DATE SIGNED:	09/16/2022	
Total Attachments: 4		
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PATENT REEL: 061123 FRAME: 0440

Docket No.: P20141253US01 / 24061.3068

Customer No.: 000042717

ASSIGNMENT

WHEREAS, we,

(1)	Carlos H. Diaz	of	Mountain View, California, USA
(2)	Chung-Cheng Wu	of	Hsin-Chu County, Taiwan, Republic of China
(3)	Chia-Hao Chang	of	Hsinchu City, Taiwan, Republic of China
(4)	Chih-Hao Wang	of	Hsinchu County, Taiwan, Republic of China
(5)	Jean-Pierre Colinge	of	Hsinchu City, Taiwan, Republic of China
(6)	Chun-Hsiung Lin	of	Hsinchu County, Taiwan, Republic of China
(7)	Wai-Yi Lien	of	Hsinchu City, Taiwan, Republic of China
(8)	Ying-Keung Leung	of	Hsinchu City, Taiwan, Republic of China
have invented certain improvements in			

CONTACTS FOR HIGHLY SCALED TRANSISTORS

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

<u>X</u>	of even date filed herewith; and		
	filed on and assigned application number; ar	ıd	

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 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

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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.

***************************************	********	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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Dated: 9/22	12015	Inventor Signature
		myontor signature
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Dated: 9/24/15	-	Chury-Cheny Wu Inventor Signature
×		· · · · · · · · · · · · · · · · · · ·
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MERIKAN MAKKAPANA PANDAR PROPERTY	nannananananananananananananananananan	Inventor Signature

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Docket No.: P20141253US01 / 24061.3068

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Dated: 8/21/2015

Inventor Signature

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RECORDED: 09/16/2022

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PATENT REEL: 061123 FRAME: 0444