505682286 09/20/2019

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

**SUBMISSION TYPE:** CORRECTIVE ASSIGNMENT **NATURE OF CONVEYANCE:** Corrective Assignment to correct the TYPOGRAPHICAL ERROR IN 1ST INVENTOR'S NAME previously recorded on Reel 031129 Frame 0423. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNORS INTEREST.

#### **CONVEYING PARTY DATA**

Name	Execution Date
KUO-CHENG CHIANG	09/18/2019
JIUN-JIA HUANG	09/18/2019
CHAO-HSIUNG WANG	09/18/2019
CHI-WEN LIU	09/18/2019

### **RECEIVING PARTY DATA**

Name:	Taiwan Semiconductor Manufacturing Company, Ltd.		
Street Address:	8, Li-Hsin Rd. 6, Hsinchu Science Park		
City:	Hsinchu		
State/Country:	TAIWAN		
Postal Code:	300-78		

### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	14017036	

### **CORRESPONDENCE DATA**

Fax Number: (972)732-9218

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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SLATER MATSIL, LLP **Correspondent Name:** 

Address Line 1: 17950 PRESTON RD., SUITE 1000

Address Line 4: DALLAS, TEXAS 75252

**ATTORNEY DOCKET NUMBER:** TSM13-0460 NAME OF SUBMITTER: MARANDA BRALLEY SIGNATURE: /Maranda Bralley/ **DATE SIGNED:** 09/20/2019

**Total Attachments: 6** 

**PATENT** REEL: 050451 FRAME: 0031

EPAS ID: PAT5729094

505682286

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> PATENT REEL: 050451 FRAME: 0032



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# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date	
Kuo-Cheng Ching	08/29/2013	
Jiun-Jia Huang	08/29/2013	
Chao-Hsiung Wang	09/02/2013	
Chi-Wen Liu	08/30/2013	

### RECEIVING PARTY DATA

Name:	Taiwan Semiconductor Manufacturing Company, Ltd.			
Street Address:	Io. 8, Li-Hsin Rd. 6			
Internal Address:	Science-Based Industrial Park			
City:	Hsin-Chu			
State/Country:	TAIWAN			
Postal Code:	300-77 R.O.C.			

### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	14017036	

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Correspondent Name: Address Line 1:

Slater & Matsil, L.L.P. 17950 Preston Road

Address Line 2:

Suite 1000

Address Line 4:

Dallas, TEXAS 75252

ATTORNEY DOCKET

**NUMBER:** 

TSM13-0460

NAME OF SUBMITTER:

Kasey Edwards

Signature:

/Kasey Edwards/

Date:

09/03/2013

**Total Attachments: 1** 

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RECEIPT INFORMATION

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PAT2525639

Receipt Date:

09/03/2013

Fee Amount:

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#### ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC), a corporation organized and existing under the laws of Taiwan, the Republic of China, with its principal office at No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C., is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TSMC, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TSMC, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to TSMC, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TSMC, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TSMC, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	FinFET Device and Method of Fabricating Same			
SIGNATURE OF INVENTOR AND NAME	tvs- (h) Chay Kuo-Cheng Ching	Jun-Jia Huang	Chu Hajhlas Chao-Hsiung Wang	Chi-Wen Lin Chi-Wen Liu
DATE	V13/8/28.	V 2013/8/29	, 20/3/9/2	12013/8/30
RESIDENCE (City, County, State)	Zhubei City, Taiwan	Hsin-Chu, Taiwan	Hsin-Chu, Taiwan	Hsin-Chu, Taiwan

ATTORNEY DOCKET NO. TSM13-0460

#### **ASSIGNMENT**

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. ("Assignee"), a corporation organized and existing under the laws of Taiwan, with its principal office at 8, Li-Hsin Rd. 6 Hsinchu Science Park, Hsinchu 300-78, Taiwan, is desirous of acquiring my entire right, title and interest in and to said invention, and to said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to said Assignee, its successors and assigns, my entire right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all future non-provisional applications including divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to said Assignee, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to Assignee, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said Assignee, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said Assignee, its legal representatives, successors, or assigns, will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said Assignee, its legal representatives, successors, and assigns, to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	FinFET Device and Method of Fabricating Same			
SIGNATURE OF INVENTOR AND NAME	Kuo-Cheng Chiang	Jium-Jia Huang	Chas- Hsturg War Chao-Hstung Wang	Chi-Wen Li
	Aud-Cheng Chiang V	Jiun-Jia Huang	Chao-Hsiung Wang	Chi-Wen Liu
DATE	10191918	8, 191600	12191918	2019/9/18
RESIDENCE	Zhubei City, Taiwan	Beigang Township, Taiwan	Hsin-Chu City, Taiwan	Hsinchu, Taiwan

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Assignment

PATENT REEL: 050451 FRAME: 0036

RECORDED: 09/20/2019