# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the First inventor's name from Po-Yao Ker to Po-Yao Ke previously recorded on Reel 023524 Frame 0571. Assignor(s) hereby confirms the Assignment.

# **CONVEYING PARTY DATA**

Name	Execution Date
Po-Yao Ke	12/14/2009
Tao-Wen Chung	03/12/2010
Shine Chung	03/12/2010
Fu-Lung Hsueh	03/16/2010

# **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 R.O.C.	

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12618425

#### **CORRESPONDENCE DATA**

501140335

Fax Number: (972)732-9218

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 972-732-1001

Email: colgrove@slater-matsil.com

Correspondent Name: Slater & Matsil, L.L.P. Address Line 1: 17950 Preston Road

Address Line 2: Suite 1000

Address Line 4: Dallas, TEXAS 75252

ATTORNEY DOCKET NUMBER: TSM08-0607

**REEL: 024192 FRAME: 0232** 

**PATENT** 

# NAME OF SUBMITTER: Sherry L. Colgrove Total Attachments: 7 source=TSM08-0607 Recordation Notice#page1.tif source=TSM08-0607 Recordation Notice#page2.tif source=TSM08-0607 Recordation Notice#page3.tif source=TSM08-0607 Recordation Notice#page4.tif source=TSM08-0607 Recordation Notice#page5.tif source=TSM08-0607\_Assignment#page1.tif source=TSM08-0607\_Corrected\_Assignment#page1.tif

PATENT REEL: 024192 FRAME: 0233

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Fax Server

TO:SLATER & MATSIL, L.L.P. COMPANY:17950 PRESTON ROAD

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Electronic Version v1.1 Stylesheet Version v1.1

11/16/2009 501016808

SUBMISSION TYPE:	NEW ASSIGNMENT
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**ASSIGNMENT** NATURE OF CONVEYANCE:

#### **CONVEYING PARTY DATA**

Name	Execution Date
Po-Yao Ker	02/03/2009
Tao-Wen Chung	02/03/2009
Shine Chung	02/03/2009
Fu-Lung Hsueh	02/03/2009

#### **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 R.O.C.	

# PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12618425

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Phone:

972-732-1001

Email:

colgrove@slater-matsil.com

Correspondent Name:

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

Address Line 1: Address Line 2:

Suite 1000

Address Line 4:

Dallas, TEXAS 75252

ATTORNEY DOCKET NUMBER:	TSM08-0607
NAME OF SUBMITTER:	Sherry L. Colgrove

**PATENT REEL: 024192 FRAME: 0234**  USPTO 11/17/2009 1:47:02 PM PAGE 5/005

TO:SLATER & MATSIL, L.L.P. COMPANY:17950 PRESTON ROAD

Total Attachments: 1 source=TSM08-0607\_Assignment#page1.tif

**PATENT** 

Fax Server

REEL: 024192 FRAME: 0235

ATTORNEY DOCKET NO. TSM08-0607

#### **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	Bipolar Junction Transistors and Methods of Fabrication Thereof			
SIGNATURE ( OF INVENTOR AND NAME	Po-Vao Va Po-Yao Ker	Tau Worlly Tao-Wen Chung	Shine Chung	They Hand
DATE	2/3/2009	2/3/2009	2/3/2009	Fdb.3,2009
RESIDENCE (City, County, State)	Dashe Township, Taiwan	Zhubei City, Taiwan	San Jose, Ca, USA	Cranberry, NJ, USA

Assignment

#### 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	Bipolar Junction Transistors and Methods of Fabrication Thereof			
SIGNATURE OF INVENTOR AND NAME	Po-(ao Kz	Tao-Wen Chung	Shine Chung	Miz Huh Fu-Lung Hsuen
DATE	12/14/2009	3/12/2010	3/12/2010	3/16/2010
RESIDENCE (City, County, State)	Dashe Township, Taiwan	Zhubei City, Taiwan	San Jose, Ca, USA	Cranberry, NJ, USA

TSM08-0607

RECORDED: 04/06/2010

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Assignment

**PATENT** REEL: 024192 FRAME: 0237