503845415 05/26/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YING-HAO SU	02/18/2016
YU-LUN LIU	02/18/2016
CHI-KANG CHANG	02/18/2016
SHIH-CHI FU	02/18/2016
KUEI-SHUN CHENG	02/16/2016
CHLOE HSU	02/18/2016

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
Street Address:	NO. 8, LI-HSIN ROAD 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:	15040065	

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	LADONNA JOHNSON
SIGNATURE:	/LaDonna Johnson/
DATE SIGNED:	05/26/2016

503845415 PATENT REEL: 038732 FRAME: 0084

Total Attachments: 3

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PATENT REEL: 038732 FRAME: 0085

Docket No.: P20151319US00/24061.3330US01

Customer No.: 000042717

ASSIGNMENT

WHEREAS, we,

(1)	Ying-Hao Su	of	Hsinchu City, Taiwan, Republic of China
(2)	Yu-Lun Liu	of	Changhua County, Taiwan, Republic of China
(3)	Chi-Kang Chang	of	New Taipei City, Taiwan, Republic of China
(4)	Shih-Chi Fu	of	Hsinchu County, Taiwan, Republic of China
(5)	Kuei-Shun Chen	of	Hsinchu City, Taiwan, Republic of China
(6)	Chloe Hsu	of	Hsin-Chu, Taiwan, Republic of China

have invented certain improvements in

A METHOD OF PLANARIZATING FLIM

for which we have filed an application for Letters Patent of the United States of America on February 10, 2016, as U.S. Serial No. 15/040,065; 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 Co., 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.

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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:	Ying-Hao Su			
Residence Address:	3F1, No. 31, Lane 185, Xinzhuang Street, East District Hsinchu City 300, Taiwan, Republic of China			
2016/2/1				
Dated: Ying Hao	<u>Su</u>	Ying	Hao Su ature	
		Inventor Signa	ature	
Inventor Name:	Yu-Lun Liu			
Residence Address:	No. 36, Hebin Street, Beidou T Changhua County 521, Taiwan		hina	
Dated:>016 . >	(8)	Yy-Lun	Līu.	
		Inventor Signa	ature	
Inventor Name:	Chi-Kang Chang			
Residence Address:	8F., No. 39-5, Section 3, Mingo New Taipei City 224, Taiwan,			
Dated: 20/6, 2/	8	Inventor Signa	Long Chang	
Inventor Name:	Shih-Chi Fu			
Residence Address:	No .9, Alley 22, Lane 289, Xue Hsinchu County 310, Taiwan, I			
Dated: 20/6, 2	. 18	Inventor Signa	- Chi Fin	

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Dated:

7/16 2016

Inventor Signature

Inventor Name:

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Dated: >016/2/18

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Inventor Signature

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RECORDED: 05/26/2016

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