503924360 07/20/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YING-HSUEH CHANG CHIEN	05/22/2013
CHI-MING YANG	05/22/2013

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, 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:	15161429

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	24061.2542US02	
NAME OF SUBMITTER:	LADONNA JOHNSON	
SIGNATURE:	/LADONNA JOHNSON/	
DATE SIGNED:	07/20/2016	

Total Attachments: 2

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> **PATENT** REEL: 039203 FRAME: 0032

Docket No.: 2012-1289 / 24061.2542

Customer No.: 42717

ASSIGNMENT

WHEREAS, we.

(1) Ying-Hsueh Chang Chien of 8F.-1, No. 27, Ln. 23, Guandong Rd., East Dist. Hsinchu City 300, Taiwan, R.O.C.

(2) Chi-Ming Yang of No. 4, Ln. 67, Dunfeng Rd., Xiangshan Dist. Hsinchu City 300, Taiwan, R.O.C.

have invented certain improvements in

A FINE TEMPERATURE CONTROLLABLE WAFER HEATING SYSTEM

for which we have filed and executed an application for Letters Patent of the United States of America on January 31, 2014, as U.S. Serial No. 14/169,337; and

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, 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.

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Docket No.: 2012-1289 / 24061.2542

Customer No.: 42717

Inventor Name:

Ying-Hsueh Chang Chien

Residence Address:

8F.-1, No. 27, Ln. 23, Guandong Rd., East Dist.

Hsinchu City 300, Taiwan, R.O.C.

Dated: ラ/ランィー

Trng-Hough Chang Chien

Inventor Name:

Chi-Ming Yang

Residence Address:

No. 4, Ln. 67, Dunfeng Rd., Xiangshan Dist.

Hsinchu City 300, Taiwan, R.O.C.

Dated:

Inventor Signature