

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>YUNG-CHOW PENG</td> <td>07/30/2013</td> </tr> <tr> <td>AMIT KUNDU</td> <td>07/30/2013</td> </tr> <tr> <td>SZU-LIN LIU</td> <td>07/30/2013</td> </tr> <tr> <td>JAW-JUINN HORNG</td> <td>07/30/2013</td> </tr> </tbody> </table>		Name	Execution Date	YUNG-CHOW PENG	07/30/2013	AMIT KUNDU	07/30/2013	SZU-LIN LIU	07/30/2013	JAW-JUINN HORNG	07/30/2013
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JAW-JUINN HORNG	07/30/2013										
RECEIVING PARTY DATA											
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.										
Street Address:	NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK										
City:	HSINCHU										
State/Country:	TAIWAN										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13956838</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13956838						
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Application Number:	13956838										
CORRESPONDENCE DATA											
Fax Number:	9497438963										
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ATTORNEY DOCKET NUMBER:	18506-624										
NAME OF SUBMITTER:	Anthony King										
Signature:	/Anthony King/										
Date:	08/01/2013										
Total Attachments: 2 source=US2755-Assg#page1.tif source=US2755-Assg#page2.tif											

OP \$40.00 13956838

ASSIGNMENT

WHEREAS, I(we), PENG, YUNG-CHOW, KUNDU, AMIT, LIU, SZU-LIN and HORNG, JAW-JUINN, whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

TEMPERATURE DETECTOR AND CONTROLLING HEAT

(hereinafter referred to as the INVENTION) for which an application for United States Letters Patent /Utility Patent is executed on even date herewith unless at least one of the following is checked:

United States Design Patent was

executed on:

filed on: Serial No.:

established by PCT International Patent Application No.: filed: designating the United States of America

issued on _____ as U.S. Patent No.: _____

WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. whose post office address is NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C. hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States and its territorial possessions;


NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I (we), ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application for the full term or terms for which the same may be granted, including all priority rights under any International Convention.

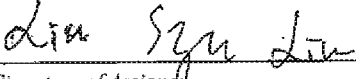
ASSIGNOR further covenants that no assignments, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment;

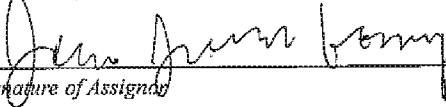
ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the INVENTION that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance, litigation and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

Assignor Name PENG, YUNG-CHOW	Address 10F-3, NO. 211, GUAN-HSIN RD, HSINCHU, TAIWAN (R.O.C.)
Signature of Assignor <i>Peng Yung-Chow</i>	Date of Signature 7/30, 2012
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name KUNDU, AMIT	Address NO.17, LANE 167, ZHANGCHUN STREET, DONG DISTRICT, HSINCHU 300, TAIWAN (R.O.C.)
Signature of Assignor 	Date of Signature 30 July 2013
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name LIU, SZU-LIN 	Address RM. 3, 2F., NO.58, ALY. 2, LN. 9, GAOCUI RD., EAST DIST., HSINCHU CITY 300, TAIWAN (R.O.C.)
Signature of Assignor	Date of Signature 30 July 2013
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name HORNG, JAW-JUINN 	Address 2F, NUMBER 31-1, 145 LANE, BAOSHAN ROAD, HSINCHU 300, TAIWAN (R.O.C.) 2017/2013
Signature of Assignor	Date of Signature
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)