503236319 03/26/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3282937

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PO-YAO LIN	03/05/2015
WEN-YI LIN	03/10/2015
SHYUE TER LEU	03/10/2015
MING-CHIH YEW	03/10/2015
SHU-SHEN YEH	03/10/2015

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Street Address:	NO. 8, LI-HSIN RD. VI, HSINCHU SCIENCE PARK
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	300

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14636866

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NAME OF SUBMITTER:	RANDY A. NORANBROCK
SIGNATURE:	/Randy A. Noranbrock/
DATE SIGNED:	03/26/2015

Total Attachments: 1

PATENT REEL: 035259 FRAME: 0724

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Docket No. P200903669US02 T5057-B102UA

ASSIGNMENT

In consideration of the premises and of	her good and valuable consideration	in hand paid, the receipt	and sufficiency of
which is hereby acknowledged, the undersigned,			•

1) Po-Yao LIN

3) Shyue Ter LEU

2) Wen-Yi LIN

- 4) Ming-Chih YEW
- 5) Shu-Shen YEH

who has made a certain new and useful invention, hereby sells, assigns and transfers unto TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD., having a place of business at No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu 300, Taiwan R.O.C.

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

THERMALLY ENHANCED HEAT SPREADER

- (a) for which an application for United States Letters Patent was filed on <u>2015-03-03</u>, and identified by United States Patent Application No. <u>14/636,866</u>; or
- (b) for which an application for United States Letters Patent was executed on

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

> PATENT REEL: 035259 FRAME: 0726

RECORDED: 03/26/2015