503643008 01/11/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3689641

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHEN-HUA YU	12/28/2015
CHUNG-SHI LIU	12/26/2015
MING-DA CHENG	12/23/2015
MIRNG-JI LII	12/29/2015
MENG-TSE CHEN	12/23/2015
WEI-HUNG LIN	12/23/2015

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFATURING CO., LTD.
Street Address:	NO. 8, LI-HSIN RD. 6
Internal Address:	HSIN-CHU SCIENCE PARK
City:	HSIN-CHU
State/Country:	TAIWAN
Postal Code:	300-77

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14975911

CORRESPONDENCE DATA

Fax Number: (216)502-0601

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 216-502-0600

Email: docketing@eschweilerlaw.com

Correspondent Name: ESCHWEILER & ASSOCIATES, LLC.

Address Line 1: 629 EUCLID AVENUE, SUITE 1000

Address Line 2: NATIONAL CITY BANK BUILDING

Address Line 4: CLEVELAND, OHIO 44114

ATTORNEY DOCKET NUMBER:	TSMCP681USA
NAME OF SUBMITTER:	DAVID W. POTASHNIK
SIGNATURE:	/DAVID W. POTASHNIK/
DATE SIGNED:	01/11/2016

503643008 PATENT REEL: 037453 FRAME: 0143

Total Attachments: 8 source=Assignment#page1.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif

PATENT REEL: 037453 FRAME: 0144

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Chen-Hua Yu No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China

Assignor(s):

Chung-Shi Liu No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China

Assignor(s):

Ming-Da Cheng No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China

Assignor(s):

Mirng-Ji Lii No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China

Assignor(s):

Meng-Tse Chen No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China

Assignor(s):

Wei-Hung Lin No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China

Assignee:

Taiwan Semiconductor Manufacturing Co., Ltd. No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled
"PACKAGE ON PACKAGE STRUCTURE AND METHOD FOR FORMING THE SAME" for which:

a non-provisional application for United States Letters Datent:

W 11	on provisional application for order of dates Letters Paterit.
\boxtimes	was executed on even date preparatory to filing (each inventor should sign this
	Assignment on the same day as he/she signs the Declaration); or
	was filed on and accorded U.S. Serial No; or
	I hereby authorize and request my attorney associated with Customer No
	107476, to insert on the designated lines below the filing date and application
	number of said application when known:
	U.S. Serial No.
	filed on

WHEREAS, ASSIGNEE (listed above), a corporation of the Republic of China is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said invention and improvements, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which

Page 2 of 8

Jan 2008

Attachment 15a

said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

Date

1st Inventor Chen-Hua Yu

Name

Page 4 of 8

Page 5 of 8

12/29/2015

Date

Mening J. husi

Name 4th Inventor Mirng-Ji Lii

Page 6 of 8

2015/12/2

Date

Name 5th Inventor Meng-Tse

Page 7 of 8

REEL: 037453 FRAME: 0151

Page 8 of 8

Jan 2008

Attachment 15a

RECORDED: 01/11/2016