505889584 01/29/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHENG-HSIUNG CHEN	07/28/2015
JYUN-HAO CHANG	07/28/2015
TING-WEI CHIANG	07/28/2015
FONG-YUAN CHANG	07/28/2015
I-LUN TSENG	07/28/2015
PO-HSIANG HUANG	07/28/2015

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:	16776135

CORRESPONDENCE DATA

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

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ATTORNEY DOCKET NUMBER:	T5057-1159B
NAME OF SUBMITTER:	RANDY A. NORANBROCK
SIGNATURE:	/Randy A. Noranbrock/
DATE SIGNED:	01/29/2020

PATENT REEL: 051662 FRAME: 0458 505889584

Total Attachments: 3 source=EfiledAssgn#page1.tif source=EfiledAssgn#page2.tif source=EfiledAssgn#page3.tif

PATENT REEL: 051662 FRAME: 0459

Docket No. P20150034US00 T5057-1159

ASSIGNMENT

In consideration of the premises an	nd other good and	l valuable consideration	in hand paid,	the receipt and	sufficiency of
which is hereby acknowledged, the undersig	ned,		-	-	•

1) Sheng-Hsiung CHEN 4) Fong-Yuan CHANG Jyun-Hao CHANG I-Lun TSENG 5) 2) Ting-Wei CHIANG 6) Po-Hsiang HUANG 3) 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

<u>GLO</u>	BAL CONNECTION ROUTING METH	HOD AND SYSTEM FOR PERFORMING	THE
<u>SAM</u>	E		
(a)	for which an application for United States Letters I United States Patent Application No14/81	Patent was filed on $2015-07-30$, and $3,483$; or	identified by
(b)	for which an application for United States Letters l	Patent was executed on,	
all Unicontinu Proper agrees applica ASSIC applica ASSIC	ted States Letters Patent which may be granted ther nations-in-part thereof, and the right to all benefits ty to the said ASSIGNEE, for its interest as ASSIGNET that the attorneys of record in said application shall he and the undersigned hereby agrees to transfection for and obtaining original, divisional, reissued of NEE, its successors, assigns and legal representative tions for patent based thereon, growing out of or	nited States Commissioner of Patents and Trademarks to refore and any and all extensions, divisions, reissues, co is under the International Convention for the Protection NEE, its successors, assigns and legal representatives; thereafter act on behalf of said ASSIGNEE; or a like interest, and to render all necessary assistant or extended Letters Patent of the United States, upon reques, and without further remuneration, in and to any improrelated to the said invention; and to execute any paperes, deemed essential to ASSIGNEE's full protection and	entinuations, or n of Industrial ne undersigned nce in making uest of the said rovements, and ers by the said
SIGNE	ED on the date indicated aside my signature:		
1)	Sheng-Hing Chen e: Sheng-Hing CHEN	Jul. 28, 2015 Date:	
2) Nam	Dywn-Hao Chang e: Jyun-Hao CHANG	7/28, 2015 7/28, 2015	
3) Nam	e: Ting-Wei CHIANG	7/28_2015 Date:	

PATENT REEL: 051662 FRAME: 0460

Fong-Tuan Chang	/sp, 2015
Name: Fong-Yuan CHANG 5)	Date:
Name: I-Lun TSENG	Date:
6) Po-HSiang HUANG Name: Po-Hsiang HUANG	

4) Name: Fong-Yuan CHANG	Date:
5) 1- Luga Franç Name: I-Lun TSENG	July 28, 2015 Date:
6) Name: Po-Hsiang HUANG	Date:

RECORDED: 01/29/2020 REEL: 051662 FRAME: 0462