

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT8087392

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MANISH ARORA	10/23/2018
HUNG-JEN LIAO	10/22/2018
YEN-HUEI CHEN	10/22/2018
NIKHIL PURI	10/23/2018
YU-HAO HSU	10/22/2018
RECEIVING PARTY DATA	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Street Address:	8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	300-78
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	18362549
CORRESPONDENCE DATA	
Fax Number:	(703)518-5499
<i>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.</i>	
Phone:	7036841111
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Correspondent Name:	HAUPTMAN HAM, LLP
Address Line 1:	2318 MILL ROAD, SUITE 1400
Address Line 4:	ALEXANDRIA, VIRGINIA 22314
ATTORNEY DOCKET NUMBER:	T5057-1320UB
NAME OF SUBMITTER:	RANDY A. NORANBROCK
SIGNATURE:	/Randy A. Noranbrock/
DATE SIGNED:	07/31/2023
Total Attachments: 2	
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ASSIGNMENT

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

- | | |
|------------------|----------------|
| 1) Manish ARORA | 4) Nikhil PURI |
| 2) Hung-Jen LIAO | 5) Yu-Hao HSU |
| 3) Yen-Huei CHEN | |

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

FLOATING DATA LINE CIRCUITS AND METHODS

(a) for which an application for United States Letters Patent was filed on 2018-11-29, and identified by United States Patent Application No. 16/204,268; 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.

SIGNED on the date indicated aside my signature:

1) 
Name: Manish ARORA

2018/10/23
Date: _____

2) _____
Name: Hung-Jen LIAO

Date: _____

3) _____
Name: Yen-Huei CHEN

Date: _____

4) _____
Name: Nikhil PURI

Date: _____

5) _____
Name: Yu-Hao HSU

Date: _____

3

Docket No. T5057-1320U
P20173179US00

ASSIGNMENT

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- | | |
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SIGNED on the date indicated aside my signature:

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|--|----------------------------|
| 1) _____
Name: Manish ARORA | _____
Date: |
| 2) <u>Hung-Jen Liao</u>
Name: Hung-Jen LIAO | <u>10/22/2018</u>
Date: |
| 3) <u>Yen-Huei CHEN</u>
Name: Yen-Huei CHEN | <u>2018/10/22</u>
Date: |
| 4) <u>Nikhil Puri</u>
Name: Nikhil PURI | <u>2018/10/23</u>
Date: |
| 5) <u>Yu-Hao Hsu</u>
Name: Yu-Hao HSU | <u>2018/10/22</u>
Date: |