

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7433146

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
WEI-CHENG LIN	09/12/2019
HUI-TING YANG	12/24/2019
JIANN-TYNG TZENG	09/12/2019
LIPEN YUAN	10/07/2019
WEI-AN LAI	08/08/2019
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:	17865272
CORRESPONDENCE DATA	
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Address Line 4:	ALEXANDRIA, VIRGINIA 22314
ATTORNEY DOCKET NUMBER:	T5057-1329UB
NAME OF SUBMITTER:	RANDY A. NORANBROCK
SIGNATURE:	/Randy A. Noranbrock/
DATE SIGNED:	07/14/2022
Total Attachments: 3	

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Docket No. T5057-1329U
P20173326US00

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) Wei-Cheng LIN | 4) Lipen YUAN |
| 2) Hui-Ting YANG | 5) Wei-An LAI |
| 3) Jiann-Tyng TZENG | |

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

SEMICONDUCTOR DEVICE INCLUDING CELL REGION HAVING MOR SIMILAR CELL DENSITIES IN DIFFERENT HEIGHT ROWS, AND METHOD AND SYSTEM FOR GENERATING LAYOUT DIAGRAM OF SAME

- (a) for which an application for United States Letters Patent was filed on 2019-07-03, and identified by United States Patent Application No. 16/502,869; 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) Wei-Cheng, Lin
Name: Wei-Cheng LIN

2019/09/12
Date:

2) _____
Name: Hui-Ting YANG

Date:

✓ 3) Jiann Tyng Tzeng
Name: Jiann-Tyng TZENG

2019/09/12
Date:

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,

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| 1) Wei-Cheng LIN | 4) Lipen YUAN |
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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: Wei-Cheng LIN

Date:

2) Hui-Ting Yang
Name: Hui-Ting YANG

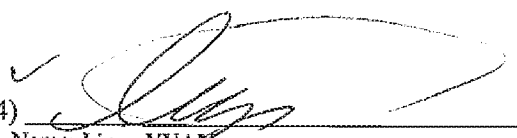
2019/12/24
Date:

3) _____
Name: Jiann-Tyng TZENG

Date:

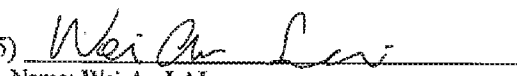
Docket No. T5057-1329U
P20173326US00

✓ 4)


Name: Lipen YUAN

2019/10/07
Date:

✓ 5)


Name: Wei-An LAI

2019 / 08 / 08
Date: