

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6615230

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GREG GRUBER	01/28/2020
CHI-LIN LIU	04/15/2020
MING-ZHANG KUO	03/15/2021
LEE-CHUNG LU	04/15/2020
SHANG-CHIH HSIEH	04/15/2020
RECEIVING PARTY DATA	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.
Street Address:	NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK
City:	HSINCHU
State/Country:	TAIWAN
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16744836
CORRESPONDENCE DATA	
Fax Number:	
<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:	9493872885
Email:	inbox@wpatca.com
Correspondent Name:	WPAT, PC INTELLECTUAL PROPERTY ATTORNEYS
Address Line 1:	1100 QUAIL STREET, SUITE 202
Address Line 4:	NEWPORT BEACH, UNITED STATES 92660
ATTORNEY DOCKET NUMBER:	18506-1901
NAME OF SUBMITTER:	ANTHONY KING
SIGNATURE:	/Anthony King/
DATE SIGNED:	03/22/2021
Total Attachments: 3	
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ASSIGNMENT

WHEREAS, I(we), GRUBER, GREG, LIU, CHI-LIN, KUO, MING-CHANG, LU, LEE-CHUNG and HSIEH, SHANG-CHIH whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

FLIP-FLOP DEVICE AND METHOD OF OPERATING FLIP-FLOP DEVICE

(hereinafter referred to as the INVENTION) for which an application for United States Letters Patent /Utility Patent is executed on even date herewith unless at least one of the following is checked:

- United States Design Patent was
- executed on:
- filed on: 16 January 2020 Serial No.: 16/744,836
- established by PCT International Patent Application No.: _____ filed: _____ designating the United States of America
- issued on _____ as U.S. Patent No.: _____

WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. whose post office address is NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C. hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States and its territorial possessions;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I (we), ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application for the full term or terms for which the same may be granted, including all priority rights under any International Convention.

ASSIGNOR further covenants that no assignments, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment;

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the INVENTION that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance, litigation and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

Assignor Name GRUBER, GREG	Address NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN (R.O.C.)
Signature of Assignor (X) <i>Greg Gruber</i>	Date of Signature (X) 01/28/2020
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name LIU, CHI-LIN	Address 1F., NO.105, SIWEI ST., YONGHE DIST., NEW TAIPEI CITY 23453, TAIWAN (R.O.C.)
Signature of Assignor (X) <i>Chi-Lin Liu</i>	Date of Signature (X) <i>2020/4/15</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name KUO, MING-CHANG	Address 8F., NO.1, LN. 131, WENSHAN RD., QIONGLIN TOWNSHIP, HSINCHU COUNTY 307, TAIWAN (R.O.C.)
Signature of Assignor (X)	Date of Signature (X)
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name LU, LEE-CHUNG	Address 3F, NO. 23, LANE 581, MINGSHUI RD., TAIPEI 104, TAIWAN (R.O.C.)
Signature of Assignor (X) <i>Lee-Chung Lu</i>	Date of Signature (X) <i>4/15/2020</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name HSIEH, SHANG-CHIH	Address NO.5, ALY. 5, LN. 429, XINNONG ST., YANGMEI CITY, TAOYUAN COUNTY 326, TAIWAN (R.O.C.)
Signature of Assignor (X) <i>Shang-chih Hsieh</i>	Date of Signature (X) <i>2020/4/15</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name LIU, CHI-LIN	Address 1F., NO.105, SIWEI ST., YONGHE DIST., NEW TAIPEI CITY 23453, TAIWAN (R.O.C.)
Signature of Assignor (X)	Date of Signature (X)
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name MING-CHANG KUO	Address 8F., NO.1, LN. 131, WENSHAN RD., QIONGLIN TOWNSHIP, HSINCHU COUNTY 307, TAIWAN (R.O.C.)
Signature of Assignor MING-CHANG KUO	Date of Signature 3/15/2021
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name LU, LEE-CHUNG	Address 3F, NO. 23, LANE 581, MINGSHUI RD., TAIPEI 104, TAIWAN (R.O.C.)
Signature of Assignor (X)	Date of Signature (X)
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name HSIEH, SHANG-CHIH	Address NO.5, ALY. 5, LN. 429, XINNONG ST., YANGMEI CITY, TAOYUAN COUNTY 326, TAIWAN (R.O.C.)
Signature of Assignor (X)	Date of Signature (X)
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)