

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4404812

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YI-LIN CHUANG	04/13/2017
CHIH-TIEN CHANG	04/13/2017
KUAN-HUA SU	04/13/2017
SZU-JU HUANG	04/14/2017
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:	15492326
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	ANTHONY KING
SIGNATURE:	/Anthony King/
DATE SIGNED:	05/09/2017
Total Attachments: 2	
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source=US6525-Assignment#page2.tif	

ASSIGNMENT

WHEREAS, I(we), CHUANG, YI-LIN, CHANG, CHIH-TIEN, SU, KUAN-HUA and HUANG, SZU-JU whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

**METHOD AND SYSTEM FOR TIMING OPTIMIZATION WITH DETOUR
PREDICTION**

(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: 20 April 2017 Serial No.: 15/492,326
☐ established by PCT International Patent Application No.: _____ filed: _____ designating the
 United States of America
☐ issued on _____ as U.S. Patent No.: _____

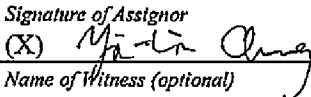
WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. whose post office address is NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C. hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States and its territorial 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 CHUANG, YI-LIN	Address 2F., NO.28, LN. 40, HULIN ST., XINYI DIST., TAIPEI CITY 110, TAIWAN (R.O.C.)
Signature of Assignor (X) 	Date of Signature (X) Apr. 13, 2017
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name CHANG, CHIH-TIEN	Address 2F., NO.86, PUDING 3RD RD., EAST DIST., HSINCHU CITY 300, TAIWAN (R.O.C.)
Signature of Assignor (X) <i>Chih Tien Chang</i>	Date of Signature (X) <i>Apr. 13. 2017</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name SU, KUAN-HUA	Address 20F.-10, NO. 188, GUANXIN RD., EAST DIST., HSINCHU CITY 300, TAIWAN (R.O.C.)
Signature of Assignor (X) <i>Kuanhua Su</i>	Date of Signature (X) <i>Apr. 13 2017</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name HUANG, SZU-JU	Address NO. 6, LANE 7, YI-MING ROAD 1ST SEC. TIEN-HSIN DIST, HSIN-PU TOWN, HSINCHU COUNTY, TAIWAN (R.O.C.)
Signature of Assignor (X) <i>Szu Ju Huang</i>	Date of Signature (X) <i>Apr. 14, 2017</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)