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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5446926

HIROSHI TSUCHI 02/01/2017 MANABU NISHIMIZU 01/27/2017 YUUSHI SYUTOU 01/27/2017 RECEIVING PARTY DATA RECEIVING PARTY DATA Street Address: 2-4-8 SHINYOKOHAMA, KOUHOKU-KU City: YOKOHAMA State/Country: JAPAN Postal Code: 222-8575 PROPERTY NUMBERS Total: 1 Property Type Number Application Number: 16368485 CORRESPONDENCE DATA Fax Number: (202)408-0924 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 using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail. Phone: 202-371-8976 Email: firm@rabinberdo.com Correspondent Name: RABIN & BERDO, P.C. Address Line 1: 1101 14TH ST., N.W., SUITE 500 Address Line 4: WASHINGTON, D.C. 20005 AttroRNEY DOCKET NUMBER: FUJI-327C1 VAME OF SUBMITTER: ROBERT H. BERDO, JR.	UBMISSION TYPE: NEW ASSIGNMENT							
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Attorney Reference

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Hiroshi TSUCHI

hereinafter referred to collectively as the assignor, has invented a certain improvement relating to SEMICONDUCTOR DEVICE

[X] the inventor(s) declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;
 [] said application having been filed in the United States Patent and Trademark Office on,

authorization being hereby given to the practitioners associated with the <u>Customer Number 23995</u>, to insert here in parentheses (Application Serial No._____) the application serial number of said application when known;
[] said application having been filed under the Patent Cooperation Treaty on _____,

Serial No.) , the United States of America being designated.

AND WHEREAS LAPIS Semiconductor Co., Ltd.

of 2-4-8 Shinyokohama, Kouhoku-ku, Yokohama 222-8575 Japan hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assigner, the receipt of which is hereby acknowledged, said assigner hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, in a sample and beneficial a manner as the said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof,

to said assignee, and said assignee's successors and assigns, in accordance herewith.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document: Rabin & Berdo, PC

All practitioners at Customer Number 23995.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

EXECUTED,	February	1, 2017	
	/		

WITNESS:

ASSIGNOR:

Signature:

Faharti houdry Signature: __ Hisoshi Tsuchi Name: Hiroshi TSUCHI

Rabin & Berdo, PC

PATENT REEL: 048732 FRAME: 0156

Attorney Reference

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

Manabu NISHIMIZU WHEREAS hereinafter referred to collectively as the assignor, has invented a certain improvement SEMICONDUCTOR DEVICE relating to [X] the inventor(s) declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office; [] said application having been filed in the United States Patent and Trademark Office on, authorization being hereby given to the practitioners associated with the Serial parentheses (Application Number insert here in 23995. to Customer) the application serial number of said application when known; No. been filed under the Patent Cooperation Treatv having application said L on , the United States of America being designated. Serial No.)

AND WHEREAS _LAPIS Semiconductor Co., Ltd.

of 2-4-8 Shinyokohama, Kouhoku-ku, Yokohama 222-8575 Japan hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to

said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the sald invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof,

to said assignee, and said assignee's successors and assigns, in accordance herewith.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

Rabin & Berdo, PC

All practitioners at Customer Number 23995.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

	January	27.	2017
EXECUTED,	Jurinary		

ASSIGNOR:

WITNESS:

Yushinon Olada Signature:

Signature: Manabu Mishimiyu

Name: Manabu NISHIMIZU

Rabin & Berdo, PC

PATENT REEL: 048732 FRAME: 0157

Attorney Reference

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Yuushi SYUTOU hereinafter referred to collectively as the assignor, has invented a certain improvement SEMICONDUCTOR DEVICE relating to [X] the inventor(s) declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office; [] said application having been filed in the United States Patent and Trademark Office on, _authorization being hereby given to the practitioners associated with the parentheses (Application Serial insert here in Customer Number 23995. to) the application serial number of said application when known; No. Treaty having been filed under the Patent Cooperation application said L on ____, the United States of America being designated. Serial No.)_

AND WHEREAS LAPIS Semiconductor Co., Ltd.

of 2-4-8 Shinyokohama, Kouhoku-ku, Yokohama 222-8575 Japan

hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assigner might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof,

to said assignee, and said assignee's successors and assigns, in accordance herewith.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

Rabin & Berdo, PC

All practitioners at Customer Number 23995.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

EXECUTED,	January	27,2017	

WITNESS;

Signature:

ASSIGNOR:

yunshi Shutou Signature:

Joshinow Oleoda.

Name: Yuushi SYUTOU

Rabin & Berdo, PC

PATENT REEL: 048732 FRAME: 0158

RECORDED: 03/28/2019