

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5632613

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	TAKAHIRO SHIMIZU	06/26/2019
RECEIVING PARTY DATA		
Name:	LAPIS SEMICONDUCTOR CO., LTD.	
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PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16519927
CORRESPONDENCE DATA		
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ATTORNEY DOCKET NUMBER:	LAPIS.1183	
NAME OF SUBMITTER:	CRIS E. JOHNSON	
SIGNATURE:	/Cris E. Johnson/	
DATE SIGNED:	07/23/2019	
Total Attachments: 1		
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ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Takahiro SHIMIZUhereinafter referred to collectively as the assignor, has invented a certain improvement relating to SEMICONDUCTOR DEVICE AND REMAINING BATTERY LEVEL DETECTION METHOD

[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 **CUSTOMER NUMBER 20987**, Volentine & Whitt, PLLC, 11951 Freedom Drive, Suite 1300, Reston, VA 20191, 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 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 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 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:

VOLENTINE & WHITT, PLLC

All practitioners at Customer Number 20987

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

EXECUTED, June 26, 2019

WITNESS:

ASSIGNOR:

Signature: Hiroaki SanoSignature: Takahiro ShimizuName: Takahiro SHIMIZU

VOLENTINE & WHITT, PLLC

PATENT