

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SHUNSUKE NITTA	08/24/2017
TAKERU MATSUOKA	08/24/2017
SHUNSUKE KATOH	08/24/2017
MASATOSHI ARAI	08/24/2017
SHINYA OZAWA	08/24/2017
BUNGO TANAKA	08/24/2017
RECEIVING PARTY DATA	
Name:	KABUSHIKI KAISHA TOSHIBA
Street Address:	1-1, SHIBAURA 1-CHOME
City:	MINATO-KU, TOKYO
State/Country:	JAPAN
Postal Code:	105-8001
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15690641
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:	202-626-3600
Email:	toshibapatents@whitecase.com
Correspondent Name:	WHITE & CASE LLP
Address Line 1:	701 13TH STREET NW
Address Line 4:	WASHINGTON, D.C. 20005
ATTORNEY DOCKET NUMBER:	1242236-0913-027 US
NAME OF SUBMITTER:	DAVID M. TENNANT
SIGNATURE:	/David M. Tennant/
DATE SIGNED:	08/30/2017
Total Attachments: 2	

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ASSIGNMENT

Now, therefore, for good and valuable consideration, receipt and sufficiency of which is hereby acknowledged, the undersigned Inventor(s) (hereinafter referred to as "ASSIGNOR(S)"), hereby sell(s), assign(s) and transfer(s) to Kabushiki Kaisha Toshiba (hereinafter referred to as "ASSIGNEE"), organized and existing under the laws of the JAPAN, having a place for the transaction of business at 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan, and the successors and assigns of the ASSIGNEE, the entire right, title and interest for the United States and its territorial possessions, and in all foreign countries, in and to the inventions and any and all improvements thereon which are the subject of an application entitled:

SEMICONDUCTOR DEVICE

And which is disclosed in the U.S. patent application executed on even date herewith, or if not so executed, was disclosed in:

- (a) U.S. patent application executed on _____
- (b) U.S. application no. 15/690,641 filed on August 30, 2017
- (c) International (e.g., PCT, JP) application no. _____ filed on _____

And in and to the above application and any legal equivalent thereof in a foreign country, including the right to claim priority, and in and to any division, continuation or continuation-in-part, renewal or substitute thereof, and in and to all resulting Letters Patents or any reissue, reexamination certificate, supplemental examination certificate, post grant review certificate, inter partes review certificate, or otherwise, thereof, to have and to hold the same to the full end of the term or terms for which any and all of said Letters Patent may be granted;

ASSIGNOR(S) authorize(s) and request(s) the issuing authority to issue any and all patents on said application or applications to said ASSIGNEE or its successors and assigns;

ASSIGNOR(S) hereby covenant(s) that ASSIGNOR(S) has/have the full power to make this assignment, and that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment; and

Without further payment or compensation by the ASSIGNEE or its successors and assigns, ASSIGNOR(S) further covenant(s) and agree(s) to communicate to said ASSIGNEE or its representatives, agents, its successors or assigns, any facts relating to said invention or inventions including evidence for purposes of interference or other administrative or legal proceedings whenever requested; to testify in any interference, legal or administrative proceedings, whenever requested; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and to do everything possible to aid said ASSIGNEE, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said invention or inventions in this or any foreign country.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

IN WITNESS WHEREOF, the ASSIGNOR(S) has/have hereunto affixed his/her/their signatures on the date below written.

- 1) Shunsuke Nitta
(Signature) Shunsuke NITTA
(Type or Print Name) Aug. 24, 2017
(Date)
- 2) Takeru Matsuoaka
(Signature) Takeru MATSUOKA
(Type or Print Name) Aug. 24, 2017
(Date)
- 3) Shunsuke Katoh
(Signature) Shunsuke KATOH
(Type or Print Name) Aug. 24, 2017
(Date)
- 4) Masatoshi Arai
(Signature) Masatoshi ARAI
(Type or Print Name) Aug. 24, 2017
(Date)
- 5) Shinya Ozawa
(Signature) Shinya OZAWA
(Type or Print Name) Aug. 24, 2017
(Date)
- 6) Bungo Tanaka
(Signature) Bungo TANAKA
(Type or Print Name) Aug. 24, 2017
(Date)