PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KEIGO SATO	09/03/2018
HIROSHI TANEDA	09/03/2018

RECEIVING PARTY DATA

Name:	SHINKO ELECTRIC INDUSTRIES CO., LTD.	
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City:	NAGANO	
State/Country:	JAPAN	
Postal Code:	381-2287	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16138252

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ATTORNEY DOCKET NUMBER:	18SD-009	
NAME OF SUBMITTER:	KYOKO MACKILLOP	
SIGNATURE:	/Kyoko MacKillop/	
DATE SIGNED:	09/21/2018	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 4

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PATENT REEL: 046940 FRAME: 0368

VERIFICATION OF TRANSLATION

I, Tadashige Itoh, a Patent Attorney of Tokyo, Japan having my office at 16th Floor, Marunouchi MY PLAZA (Meiji Yasuda Seimei Building), 1-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-0005 Japan do solemnly and sincerely declare that the English-language translation(s) in the attached combined declaration and assignment(s) is correct, true and faithful translation(s) to the best of my knowledge and belief.

Dated September 21, 2018

Tadashige Itoh

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COMBINED DECLARATION AND ASSIGNMENT

特許出願宣言書及び譲渡証

本譲渡証は、(1) 、及び(2) に居所を有する、 (1) 、及び(2) (以下、譲渡人) によるものであり、	THIS ASSIGNMENT, by (1) Keigo SATO, and (2) Hiroshi TANEDA (hereinafter referred to as "Assignors"), residing at (1) Nagano-shi, Nagano, Japan, and (2) Nagano-shi, Nagano, Japan, respectively;
譲渡人は、既に出願された、又は、本譲渡証と同時に 署名される米国特許証のための特許出願に記載された 以下の発明の名称を有する発明をなし:	WHEREAS, Assignors have made an invention entitled: SEMICONDUCTOR DEVICE WITH BARRIER LAYER.
(出願番号:)、 出願日:)、	(Application No, filed) set forth in a patent application for Letters Patent of the United States, either previously filed or executed concurrently herewith; and
一方、に営業所を有する、 (以下、譲受人)は、上記発明及び米 国特許証のための上記出願、及びそこから得られる全 ての米国特許証に関する全ての権利、権原、及び利益 の取得を希望し、	WHEREAS, SHINKO ELECTRIC INDUSTRIES CO., LTD. (hereinafter referred to as "Assignee"), having offices at 80, Oshimada-machi, Nagano-shi, Nagano 381-2287 Japan, is desirous of acquiring the entire right, title and interest in and to said invention and said application

そのためここに、受領を確認した5ドル及び有効にし て価値ある他の対価と引き換えに、譲渡人は、譲受人 ならびにその承継人、法定代理人及び(更なる)譲受 人に対して、上記発明及び特許証のための上記出願、 及び上記特許出願の全ての直接的及び間接的な分割出 願、継続出願、継続審査及び一部継続出願、それらに 基づく合衆国及びにあらゆる全ての外国において付与 される全ての特許証、当該特許証の再発行、再審査及 び延長についての全ての権利、権原及び利益と、工業 所有権保護に関する国際条約上の全ての権利とを、本 譲渡が実施されなかった場合に譲渡人が保持・享受し たであろう場合と完全に同様に、特許証の存続期間及 び/又は延長期間が満了するまでの間、譲受人自らの 使用及び利益のために、またその承継人、法定代理人 及び(更なる)譲受人の使用及び利益のために譲受人 により保持・享受されるように、売却、譲渡、移転、 設定しており、本書面によりこれを証する。

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for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor

and thereon:

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles,

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めの上記出願についての全ての権利、権原及び利益の 唯一の法的所有者であり、それは妨げられるものでは なく、更に、譲渡人は当該発明及び特許証のための出 願を本譲渡証に記載された方法により売却及び移転す ることができる有効にして完全な権利及び法的な権威 を有することを、譲受人及びにその承継人、法定代理 人及び(更なる)譲受人に対して表明し、保証する。

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譲渡人はここに、譲受人並びにその承継人、法定代理 人及び(更なる)譲受人による単独での使用及び利益 のため、上記発明及び上記発行される特許証の譲受人 として上記米国特許証を譲受人宛に発行することを、 米国特許商標庁長官に要請する。

譲渡人は本書類を米国特許商標庁へ登録するための規則に従うために必要な又は望ましい更なる特定のための情報を本譲渡証に挿入する権限を以下のものに与える:カスタマーナンバー77464に関連づけられている全ての有資格者。

譲渡人は、本発明がなされた時点において当該発明を 譲受人へ譲渡する義務があったことを認める。

私/我々は以上の証として以下の適切な欄に署名を行う。

and or interests that have arisen to Assignee under the law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to said invention and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said invention, without charge to Assignee, its successors, legal representatives, and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns shall advise; that any proceeding in connection with said invention, or said patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said invention in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation, continued prosecutions, or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable:

AND Assignors hereby request that the Director of the United States Patent and Trademark Office issue said Letters Patent of the United States to Assignee, as Assignee of said invention and the said Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns;

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; All practitioners associated with the Customer Number 77464.

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

IN TESTIMONY WHEREOF, I'WE have set our hand(s) in the appropriate space below.

直言書	<u>Declaration</u>
下記発明者である私は、以下を宣言します。	As a below named inventor, I hereby declare that:
本宣言は、以下を対象とする:	This declaration is directed to:
□ 添付の出願、あるいは□ 米国出願番号又は PCT 国際出願番号として、	The attached application, or United States application or PCT international application number
として、 の日に提出された出願	filed on .
上記の出願は私自身、あるいは私が権限を授与したも のによって行われたものです。	The above-identified application was made or authorized to be made by me.
私は本出願に記載の発明に関する原初の発明者、ある いは原初の共同発明者です。	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
本宣誓書において故意に虚偽の申し立てを行った場合は 18U.S.C.1001 により、罰金あるいは最高五(5)年の 禁固刑、あるいはその両方による罰則の対象となることを承知しています。	I hereby acknowledge that any willful false statement mad in this declaration is punishable under 18 U.S.C. 1001 by to or imprisonment of not more than five (5) years, or both.
注:本書面に必要な情報やサインは英語右欄のみに記入日本語左欄は英語原本理解のための参考情報。	Note: Insert the necessary information and signature for this form in the English column only. The Japanese column is reference information to aid understanding of the English.
Date (日付):	Sept. 3, 2018
Legal Name of Inventor(発明者氏名):	Keigo SATO Leigo Facto
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Date (日付):	Sept. 3. 20/8
Legal Name of Inventor(発明者氏名):	Hiroshi TANEDA
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RECORDED: 09/21/2018