

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HIROSHI TOMIZAWA	09/02/2016
KATSUYA FUKASE	09/02/2016
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15297782
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<b>SIGNATURE:</b>	/Christopher P Harris/
<b>DATE SIGNED:</b>	10/19/2016
<b>Total Attachments: 1</b>	
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ASSIGNMENT OF APPLICATION

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned inventor(s) hereby:

1) Sell(s), assign(s) and transfer(s) to

SHINKO ELECTRIC INDUSTRIES CO., LTD.

(hereinafter referred to as "ASSIGNEE"), which has a business office at

80, Oshimada-machi, Nagano-shi, Nagano-ken 381-2287 Japan,

the entire right, title, and interest in any and all inventions and improvements disclosed in, application(s) based upon, and Patent(s) granted upon the information which is disclosed in the application entitled:

WIRING SUBSTRATE AND SEMICONDUCTOR DEVICE

(File No. OTI-026021 US ORD) for which I(we) have executed an application for a United States Letters Patent on September 2, 2016.  
(Application Serial No. 15/297782 filed on 19 October 2016.)

2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application, or any division, continuation, substitute or reissue thereof, to the ASSIGNEE.

3) Agree to execute all papers and documents and perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof and/or the enforcement of patents resulting from such applications.

Signed on the date(s) indicated beside my(our) signature(s).

1) Hiroshi Tomizawa Date: September 2, 2016  
Name: Hiroshi TOMIZAWA

2) Katsuya Fukase Date: K.F. ~~Oct.~~ Sep. 2, 2016  
Name: Katsuya FUKASE

Witness: Koichi Gaja Date: Sep. 5, 2016