503606210 12/10/2015 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3652841

		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ		
		Name	Execution Date
HIROMU ARISAKA			08/28/2015
NORIYOSHI SHIMIZU			08/28/2015
TOSHINORI KOYAMA			08/31/2015
AKIO ROKUGAWA			08/31/2015
RECEIVING PARTY DA			
Name:	SHINKO ELECTRIC INDUSTRIES CO., LTD.		
Street Address:	80, OSHIMADA-MACHI		
City:	NAGANO-SHI, NAGANO		
State/Country:	JAPAN		
Postal Code:	381-2287		
	Total: 1		
Property Type		Number	
Application Number:	1	14962536	
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ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

WIRING BOARD AND SEMICONDUCTOR DEVICE

that are the subject of an application for a U.S. Patent, (Application No. <u>14/962536</u> filed <u>December 8, 2015</u>), which application is further identified as Rankin, Hill & Clark LLP Docket No. <u>HKY-40536</u>.

WHEREAS, <u>SHINKO ELECTRIC INDUSTRIES CO., LTD.</u>, a corporation of <u>Japan</u>, and having a place of business at <u>80</u>, <u>Oshimada-machi</u>, <u>Nagano-shi</u>, <u>Nagano</u>, <u>381-2287 Japan</u>, hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same,

The undersigned hereby grants the firm of Rankin, Hill & Clark LLP the power to insert on this assignment any identification that 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.

Page 1 of 3 PATENT REEL: 037262 FRAME: 0938 IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

Inventor Name (sole or joint): Hiromu ARISAKA (1) Signature: <u>Hiromu Arisaka</u> Today's Date : Avgust 28. 2015 Witness: Witness: (2) Inventor Name (joint): <u>Norivoshi SHIMIZU</u> morioshi Shimin Signature: Today's Date : / digust 28. 2015 Witness: Witness: Inventor Name (joint): _____Toshinori KOYAMA (3) Signature: Joshinori Koyama Witness: Witness: (4) Inventor Name (joint): _____Akio ROKUGAWA Signature: Ukio Dobugan Today's Date : _____ August . 31. 2015 Witness: Witness:

> Page 2 of 3 PATENT REEL: 037262 FRAME: 0939

RECORDED: 12/10/2015