

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kazuhiro Kobayashi</td> <td>03/19/2008</td> </tr> <tr> <td>Junichi Nakamura</td> <td>03/19/2008</td> </tr> <tr> <td>Kentaro Kaneko</td> <td>03/19/2008</td> </tr> </tbody> </table>		Name	Execution Date	Kazuhiro Kobayashi	03/19/2008	Junichi Nakamura	03/19/2008	Kentaro Kaneko	03/19/2008
Name	Execution Date								
Kazuhiro Kobayashi	03/19/2008								
Junichi Nakamura	03/19/2008								
Kentaro Kaneko	03/19/2008								
RECEIVING PARTY DATA									
Name:	SHINKO ELECTRIC INDUSTRIES CO., LTD.								
Street Address:	80, Oshimada-machi								
City:	Nagano-shi, Nagano								
State/Country:	JAPAN								
Postal Code:	381-2287								
PROPERTY NUMBERS Total: 1									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12099322</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12099322				
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Application Number:	12099322								
CORRESPONDENCE DATA									
Fax Number:	(216)566-9711								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	2165669700								
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Address Line 4:	Willoughby, OHIO 44094								
ATTORNEY DOCKET NUMBER:	HKY-18248								
NAME OF SUBMITTER:	David E. Spaw								
Total Attachments: 2 source=18248#page1.tif source=18248#page2.tif									

OP \$40.00 12099322

PATENT

500508427

REEL: 020771 FRAME: 0667

ASSIGNMENT

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

WIRING BOARD MANUFACTURING METHOD, SEMICONDUCTOR DEVICE
MANUFACTURING METHOD AND WIRING BOARD

that are the subject of an application for a U.S. Patent, (Application No. 12/099322
, filed 04/08/2008), which application is further identified as Rankin, Hill,
Porter & Clark LLP Docket No. HKY-18248.

WHEREAS, SHINKO ELECTRIC INDUSTRIES CO., LTD., a corporation of
Japan, and having a place of business at 80, Oshimada-machi, Nagano-shi, Nagano
381-2287, Japan, 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, Porter & 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.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

(1) Inventor Name (sole or joint): Kazuhiro KOBAYASHI
Signature: Kazuhiro Kobayashi
Today's Date : March 19, 2008

Witness: _____
Witness: _____

(2) Inventor Name (joint): Junichi NAKAMURA
Signature: Junichi Nakamura
Today's Date : March 19, 2008

Witness: _____
Witness: _____

(3) Inventor Name (joint): Kentaro KANEKO
Signature: Kentaro Kaneko
Today's Date : March 19, 2008

Witness: _____
Witness: _____

(4) Inventor Name (joint): _____
Signature: _____
Today's Date : _____

Witness: _____
Witness: _____