

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Tatsuya Nakamura</td><td>10/05/2009</td></tr><tr><td>Tomoko Yamada</td><td>10/05/2009</td></tr></tbody></table>		Name	Execution Date	Tatsuya Nakamura	10/05/2009	Tomoko Yamada	10/05/2009				
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RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>SHINKO ELECTRIC INDUSTRIES CO., LTD.</td></tr><tr><td>Street Address:</td><td>80, Oshimada-machi</td></tr><tr><td>City:</td><td>Nagano-shi, Nagano</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr><tr><td>Postal Code:</td><td>381-2287</td></tr></table>		Name:	SHINKO ELECTRIC INDUSTRIES CO., LTD.	Street Address:	80, Oshimada-machi	City:	Nagano-shi, Nagano	State/Country:	JAPAN	Postal Code:	381-2287
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
Fax Number: (216)566-9711 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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NAME OF SUBMITTER:	David E. Spaw										
Total Attachments: 2 source=19537#page1.tif source=19537#page2.tif											

CH \$40.00 12579726

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PATENT
REEL: 023378 FRAME: 0328

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned
in
METHOD OF MANUFACTURING WIRING SUBSTRATE

that are the subject of an application for a U.S. Patent, (Application No. 12/579726,
filed 10/15/2009), which application is further identified as Rankin, Hill &
Clark LLP Docket No. HKY-19537.

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 & 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): Tatsuya NAKAMURA

Signature: Tatsuya Nakamura

Today's Date : October 5, 2009

Witness: _____

Witness: _____

(2) Inventor Name (joint): Tomoko YAMADA

Signature: Tomoko Yamada

Today's Date : October 5, 2009

Witness: _____

Witness: _____

(3) Inventor Name (joint): _____

Signature: _____

Today's Date : _____

Witness: _____

Witness: _____

(4) Inventor Name (joint): _____

Signature: _____

Today's Date : _____

Witness: _____

Witness: _____