

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>Voonyee HO</td> <td>08/05/2009</td> </tr> <tr> <td>Takeshi TANAKA</td> <td>08/03/2009</td> </tr> <tr> <td>Masami INOUE</td> <td>07/28/2009</td> </tr> <tr> <td>Martin John MCCASLIN</td> <td>08/04/2009</td> </tr> </tbody> </table>		Name	Execution Date	Voonyee HO	08/05/2009	Takeshi TANAKA	08/03/2009	Masami INOUE	07/28/2009	Martin John MCCASLIN	08/04/2009
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Martin John MCCASLIN	08/04/2009										
RECEIVING PARTY DATA											
Name:	Nitto Denko Corporation										
Street Address:	1-1-2, Shimohozumi										
City:	Ibaraki-shi, Osaka										
State/Country:	JAPAN										
Postal Code:	567-8680										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12549993</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12549993						
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Application Number:	12549993										
CORRESPONDENCE DATA											
Fax Number:	(215)965-1331										
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NAME OF SUBMITTER:	William W. Schwarze										

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**PATENT
 REEL: 023168 FRAME: 0776**

Total Attachments: 2
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**ASSIGNMENT
(PATENT APPLICATION)**

WHEREAS, we, ("ASSIGNORS"):

<u>Inventor</u>	<u>Citizenship</u>	<u>Address</u>
Voonyee HO	Singapore	c/o NITTO DENKO CORPORATION, 1-1-2, Shimohozumi, Ibaraki-shi, Osaka 567-8680, Japan
Takeshi TANAKA	Japan	c/o NITTO DENKO CORPORATION, 1-1-2, Shimohozumi, Ibaraki-shi, Osaka 567-8680, Japan
Masami INOUE	Japan	c/o NITTO DENKO CORPORATION, 1-1-2, Shimohozumi, Ibaraki-shi, Osaka 567-8680, Japan
Martin John MCCASLIN	U.S.A.	c/o NITTO DENKO AMERICA, INC., 48500 Fremont Blvd., Fremont, CA 94538 U.S.A.

having invented a certain new and useful invention entitled:

PRINTED CIRCUIT BOARD AND METHOD OF MANUFACTURING THE SAME

for which a United States patent application is to be filed or has been filed on 8/28/2009 under U.S. Patent Application No. 12/549,993; and

WHEREAS, ("ASSIGNEE"): NITTO DENKO CORPORATION, a Japanese corporation having a place of bussiness at 1-1-2, Shimohozumi, Ibaraki-shi, Osaka 567-8680, Japan,

is desirous of acquiring the entire right, title and interest in and to the invention throughout the United States and the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all countries throughout the world;

FOR GOOD and VALUABLE CONSIDERATION, the full receipt and sufficiency of which are hereby acknowledged, ASSIGNORS, intending to be legally bound, do hereby:

AUTHORIZE said ASSIGNEE, or its representatives to insert above the filing date and application number of the application when these are known;

SELL, ASSIGN, TRANSFER and CONVEY to ASSIGNEE the whole and entire right, title and interest for the United States and its possessions and territories and all foreign countries in and to the invention which is disclosed in the above-identified patent application, and, in and to any and all patent applications related thereto including, but not limited to, all provisionals, non-provisionals, divisionals, continuations, continuations-in-part, substitutes, reexaminations, reissues and all other applications for patent which have been or shall be filed in the United States and all foreign countries on the invention; all original, reissued and reexamined patents and extensions thereof which have been or shall be issued in the United States and all foreign countries on the invention to the full end of the term or terms for which the patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNOR(S) had this Assignment not been made; and specifically including all rights of priority created by the above patent application under any treaty, convention or law relating thereto;

AUTHORIZE and REQUEST the issuing authority to issue any and all United States and foreign patents granted on the invention to ASSIGNEE;

WARRANT and REPRESENT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by ASSIGNORS, and that the full right to convey the same as herein expressed is possessed by ASSIGNORS;

AGREE and UNDERTAKE, when requested and at the expense of ASSIGNEE, to carry out in good faith the intent and purpose of this Assignment, ASSIGNORS will execute all non-provisionals, divisionals, continuations, continuations-in-part, substitutes, reexaminations, reissues, and all other patent applications on the invention; execute all lawful oaths, declarations, assignments, powers of attorney and other papers; communicate to ASSIGNEE all facts known to ASSIGNORS relating to the invention and the history thereof; and generally do everything possible which ASSIGNEE shall consider desirable for vesting title to the invention in ASSIGNEE, and for securing, maintaining and enforcing proper patent protection for the invention; all without further compensation to ASSIGNORS;

TO BE BINDING on the heirs, assigns, representatives and successors of ASSIGNORS and extending to the successors, assigns, and nominees of ASSIGNEE.

August 5 2009
Date

August 3 2009
Date

July 28, 2009
Date

August 4 2009
Date

Voonyee Ho
Voonyee HO

Takeshi Tanaka
Takeshi TANAKA

Masami Inoue
Masami INOUE

Martin John MCCASLIN
Martin John MCCASLIN