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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Taiki NISHI	10/30/2012
Takeshi MIYAKAWA	10/30/2012
Katsunori YASHIMA	11/05/2012
Kensuke OKOSHI	11/05/2012
Hidenori ISHIKURA	11/05/2012

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13696890

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Total Attachments: 2

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PATENT REEL: 029265 FRAME: 0133 \$40.00 136

ASSIGNMENT

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, as a below named inventor, I hereby sell and assign to <u>DENKI KAGAKU KOGYO KABUSHIKI KAISHA of</u> 1-1, Nihonbashi-Muromachi 2-chome, Chuo-ku, Tokyo 1038338 JAPAN, its successors and assigns or other legal representatives all my rights, title and interest, in and for the United States of America, in and to

METHOD OF MANUFACTURING METAL-BASE SUBSTRATE AND METHOD OF MANUFACTURING CIRCUIT BOARD

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefore as International Application No. PCT/JP2011/058735 filed on April 6, 2011, which claims priority of Japanese Application No. JP2010-108051 filed on May 10, 2010 and all United States Letters Patent which may be granted therefore, and all divisions, continuations, reissues, reexaminations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said DENKI KAGAKU KOGYO KABUSHIKI KAISHA, its successors, assigns or other legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said <u>DENKI KAGAKU KOGYO KABUSHIKI KAISHA</u>.

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