PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Takashi ICHIMURA	06/20/2011
Takanobu NARUSE	06/14/2011
Chiaki FUJII	06/14/2011

RECEIVING PARTY DATA

Name:	MURATA MANUFACTURING CO., LTD.
Street Address:	10-1, Higashikotari 1-chome
Internal Address:	Nagaokakyo-shi
City:	Kyoto
State/Country:	JAPAN
Postal Code:	617-8555

Name:	RENESAS ELECTRONICS CORPORATION
Street Address:	1753, Shimonumabe, Nakahara-ku
Internal Address:	Kawasaki-shi
City:	Kanagawa
State/Country:	JAPAN
Postal Code:	211-8668

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13156049

CORRESPONDENCE DATA

Fax Number: (703)390-1277

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Correspondent Name: Studebaker & Brackett PC

PATENT REEL: 026708 FRAME: 0372 OP \$40,00 13156049

501618076

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Address Line 4: Reston, VIRGINIA 20190

ATTORNEY DOCKET NUMBER: 004400-MM0004

NAME OF SUBMITTER: Tim L. Brackett, Jr.

Total Attachments: 2
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PATENT REEL: 026708 FRAME: 0373

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

is in section to the care of t	OF ALLEGATION FOR UNITED STATES LETTERS PATENT
WHEREAS Takasi	in ICHIMURA, Takanobu NARUSE and Chiaki FUJII
word in the state of contect	ively as the assignor, has invented a certain improvement relating to:
WIRING SU	SSTRATE IN WHICH EQUAL-LENGTH WIRES ARE FORMED
mending and obbitables to	on for said application being executed concurrently with the execution of this be filed in the United States Patent and Trademark Office;
	en filed in the United States Patent and Trademark Office on, June 8, 2011 - given to the practitioners associated with STUDEBAKER & BRACKETT PC's 18, to insert here in parentheses (Application Serial No. 13/156,049) the ald application when known;
[] said application having bee Serial No.	en filed under the Patent Cooperation Treaty on as as, the United States of America being designated.
AND WHEREAS MILE 10-1, Higashikotari 1-chome CORPORATION of 1753, hereinafter referred to as the a application, including any and all patents which may be gran NOW, that for and in a paid by said assignee to said	JRATA MANUFACTURING CO., LTD. Nagaokakyo-shi, Kyoto 617-8555 JAPAN, and RENESAS ELECTRONICS Shimonumabe, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8668 JAPAN assignee, is desirous of acquiring the entire right, title and interest in and to said all divisions and continuations thereof, and in and to said invention and any and ted therefor, including any and all renewals, reissues and prolongations thereof; consideration of One Dollar (\$1.00), and other good and valuable consideration assigner, the receipt of which is hereby an analysis and valuable consideration
exclusive right, title and interest thereof, and in and to said inversions all renewals, reissues and proto have, hold, exercise and enjand the said invention and any reissues and prolongations the from or appertaining thereto, including any and all renewals and said assignee's successor or could have held and enjoyed	the sale assigned, and said assigned's successors and assigns, the full and set in and to said application, including any and all divisions and continuations antion and any and all patents which may be granted therefor, including any and longations thereof; said assignee, and said assignee's successors and assigns, by the said application, including any and all divisions and continuations thereof, and all patents which may be granted therefor, including any and all renewals, areof, with all the rights, powers, privileges and advantages in anywise arising for and during the term or terms of any and all such patents when granted, reissues and prolongations thereof, for the use and benefit of said assignee, is and assigns, in as ample and beneficial a manner as the said assignor might of the same, if this assignment had not been made.
any and all renewals, reissues	
said assignee's successors and	thorizes and requests the Commissioner of Patents and Trademarks to issue on, and on any and all divisions and continuations thereof, to said assignee, and diassigns, in accordance herewith.
On this Assignment any lutther	by grant(s) the law firm of STUDEBAKER & BRACKETT PC the power to insert identification which may be necessary or desirable in order to comply with the ademark Office for recordation of this document.
name(s).	been executed by the undersigned on the date(s) opposite the undersigned
Date: 6/20/2011	Signature: Takashi Ichimura Name: Takashi ICHIMURA
Date:	Signature: Name; <u>Takanobu NARUSE</u>
Date:	Signature:

PATENT REEL: 026708 FRAME: 0374

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS __Takashi ICHIMURA, Takanobu NARUSE and Chiaki FUJII
hereinafter referred to collectively as the assignor, has invented a certain improvement relating to:

WIRING SUBS	TRATE IN WHICH EQUAL-LENGTH WIRES ARE FORMED
[X] the inventor(s) declaration instrument; said application to be	for said application being executed concurrently with the execution of this be filed in the United States Patent and Trademark Office;
authorization being hereby giv	filed in the United States Patent and Trademark Office on, ven to the practitioners associated with STUDEBAKER & BRACKETT PC's to insert here in parentheses (Application Serial No) the dapplication when known;
	filed under the Patent Cooperation Treaty on, as, the United States of America being designated.
10-1. Higashikotari 1-chome, I CORPORATION of 1753, S hereinafter referred to as the as application, including any and a	of Nagaokakyo-shi, Kyoto 617-8555 JAPAN, and RENESAS ELECTRONICS himonumabe, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8668 JAPAN signee, is desirous of acquiring the entire right, title and interest in and to said divisions and continuations thereof, and in and to said invention and any and difference, including any and all renewals, reissues and prolongations thereof;
paid by said assignee to said a assigns, sells and transfers to exclusive right, title and interes thereof, and in and to said inven- all renewals, reissues and prolo to have, hold, exercise and enjo- and the said invention and any reissues and prolongations ther from or appertaining thereto, for including any and all renewals, and said assignee's successors	insideration of One Dollar (\$1.00), and other good and valuable consideration issignor, the receipt of which is hereby acknowledged, said assignor hereby said assignee, and said assignee's successors and assigns, the full and it in and to said application, including any and all divisions and continuations ation and any and all patents which may be granted therefor, including any and ingations thereof; said assignee, and said assignee's successors and assigns, at the said application, including any and all divisions and continuations thereof, and all patents which may be granted therefor, including any and all renewals, reof, with all the rights, powers, privileges and advantages in anywise arising or and during the term or terms of any and all such patents when granted, reissues and prolongations thereof, for the use and benefit of said assignee, and assigns, in as ample and beneficial a manner as the said assignor might the same, if this assignment had not been made.
AND said assignor here successors or assigns, any and any and all renewals, reissues a	by agrees to perform, upon the request of said assignee, or said assignee's all acts relating to the obtaining or to the asserting of said patents, including and prolongations thereof.
Letters Patent on said applicatio	norizes and requests the Commissioner of Patents and Trademarks to issue n, and on any and all divisions and continuations thereof, to said assignee, and assigns, in accordance herewith.
on this Assignment any further i	y grant(s) the law firm of STUDEBAKER & BRACKETT PC the power to insert dentification which may be necessary or desirable in order to comply with the demark Office for recordation of this document.
This Assignment has b name(s).	een executed by the undersigned on the date(s) opposite the undersigned
Date:	Signature:Name: Takashi ICHIMURA
Date: June 14, 2011	Signature: Jak June Name: Takanobu NARUSE
Date: June 14, 2011	Signature: Chiaki Fujii Name: Chiaki FUJII

PATENT REEL: 026708 FRAME: 0375

RECORDED: 08/05/2011