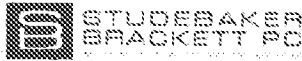


PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT2804051

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
AYA IWATA	03/03/2014
YASUNARI HINO	03/25/2014
RECEIVING PARTY DATA	
Name:	mitsubishi electric corporation
Street Address:	7-3, MARUNOUCHI 2-CHOME, CHIYODA-KU,
City:	TOKYO
State/Country:	JAPAN
Postal Code:	100-8310
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14247272
CORRESPONDENCE DATA	
Fax Number:	(703)390-1277
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	703 390 9051
Email:	info@sbpatentlaw.com
Correspondent Name:	STUDEBAKER & BRACKETT PC
Address Line 1:	12700 SUNRISE VALLEY DRIVE
Address Line 2:	SUITE 102
Address Line 4:	RESTON, VIRGINIA 20191
ATTORNEY DOCKET NUMBER:	005700-ME0092
NAME OF SUBMITTER:	TIM L. BRACKETT, JR.
SIGNATURE:	/Tim L. Brackett, Jr./
DATE SIGNED:	04/08/2014
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 4	
source=DECS#page1.tif	
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source=DECS#page3.tif	
source=DECS#page4.tif	
PATENT	



Attorney Docket No. _____

COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

Title of Invention:

Bonding structure including metal nano particles and bonding method using metal nano particles

私は、以下に記名された発明者として、ここに下記の通り
宣言する:

As a below named inventor, I hereby declare that

本宣言書は、以下の出願に対するものである:

This declaration is directed to:

- 添付された出願、あるいは、
- 米国出願番号またはPCT国際出願番号は、
_____であり、且つ
_____の日に
出願された出願(該当する
場合)

- The attached application, or
- United States application or PCT international
application number _____
filed on _____

上記出願書(明細書及び図面)は、私が作成したもの
か、あるいは私がその作成を許可したものである。

The above-identified application was made or authorized to
be made by me.

私は、本米国出願の請求範囲で記載された発明に対す
る原発明者であるか、或いは、原共同発明者であると信じ
ている。

I believe that I am the original inventor or an original joint
inventor of a claimed invention in the application.

私は、ここでの宣誓または陳述において故意に偽りを述べ
た場合、合衆国法典第18巻第1001条に基づき、罰金あ
るいは5年以下の懲役、または、両方の懲罰を受けることを
認める。

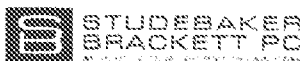
I hereby acknowledge that any willful false statement made
in this declaration is punishable under 18 U.S.C. 1001 by fine
or imprisonment of not more than five (5) years, or both.

**STATEMENT OF ACCURATE TRANSLATION IN
ACCORDANCE WITH 37 CFR 1.69(b):**

The Declaration and Assignment for Patent and Design
Applications is an accurate translation of the corresponding
English language Declaration and Assignment for Patent
and Design Applications

Signature: _____

Date: 11/15/2012



Attorney Docket No. _____

WHEREAS the undersigned, hereinafter referred to as the assignor, has invented a certain improvement relating to the above identified application.

The inventor declaration for said application is combined herewith.

[X] said application to be filed in the United States Patent and Trademark Office;

[] said application having been filed in the United States Patent and Trademark Office on, _____ authorization being hereby given to the practitioners associated with STUDEBAKER & BRACKETT PC's CUSTOMER NUMBER 78198, to insert here in parentheses (Application Serial No. _____) the application serial number of said application when known;

[] said application having been filed under the Patent Cooperation Treaty on _____, as Serial No. _____, the United States of America being designated.

AND WHEREAS Mitsubishi Electric Corporation of 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310, Japan, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

The undersigned hereby grants the law firm of STUDEBAKER & BRACKETT PC the power to insert on the Assignment portion of this combined Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

This combined Declaration and Assignment has been executed by the undersigned on the date opposite the undersigned name.

発明者氏名 / Legal Name of Inventor	
Aya IWATA	
発明者の署名 / Signature	日付 / Date
Aya Iwata	March 3, 2014

**COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT OF APPLICATION
FOR UNITED STATES LETTERS PATENT**

Title of Invention:

Bonding structure including metal nano particles and bonding method using metal nano particles

私は、以下に記名された発明者として、ここに下記の通り
宣言する:

As a below named inventor, I hereby declare that:

本宣言書は、以下の出願に対するものである:

This declaration is directed to:

- 添付された出願、あるいは、
 米国出願番号またはPCT国際出願番号は、
_____ であり、且つ
_____ の日に出願された出願(該当する
場合)

The attached application, or
 United States application or PCT international
application number _____
filed on _____

上記出願書(明細書及び図面)は、私が作成したもの
か、あるいは私がその作成を許可したものである。

The above-identified application was made or authorized to
be made by me.

私は、本米国出願の請求範囲で記載された発明に対す
る原発明者であるか、或いは、原共同発明者であると信じ
ている。

I believe that I am the original inventor or an original joint
inventor of a claimed invention in the application.

私は、ここでの宣誓または陳述において故意に偽りを述べ
た場合、合衆国法典第18巻第1001条に基づき、罰金あ
るいは5年以下の懲役、または、両方の懲罰を受けることを
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Signature: _____

Date: 11/15/2012



Attorney Docket No. _____

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The inventor declaration for said application is combined herewith.

said application to be filed in the United States Patent and Trademark Office;

said application having been filed in the United States Patent and Trademark Office on, _____ authorization being hereby given to the practitioners associated with STUDEBAKER & BRACKETT PC's CUSTOMER NUMBER 78198, to insert here in parentheses (Application Serial No. _____) the application serial number of said application when known;

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AND WHEREAS Mitsubishi Electric Corporation of 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310, Japan, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

The undersigned hereby grants the law firm of STUDEBAKER & BRACKETT PC the power to insert on the Assignment portion of this combined Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

This combined Declaration and Assignment has been executed by the undersigned on the date opposite the undersigned name.

発明者名 / Legal Name of Inventor	
Yasunari HINO	
発明者の署名 / Signature	日付 / Date
<i>Yasunari Hino</i>	March 25, 2014