503904712 07/07/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3951363

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MASAKI KITAJIMA	06/23/2016
TAKASHI TOMOHIRO	06/23/2016
GOTA SHINOHARA	06/23/2016
HIRONORI SUZUKI	06/23/2016
NORIKO SHIMIZU	06/23/2016

RECEIVING PARTY DATA

Name:	MURATA MANUFACTURING CO., LTD.
Street Address:	10-1, HIGASHIKOTARI 1-CHOME, NAGAOKAKYO-SHI
City:	KYOTO-FU
State/Country:	JAPAN
Postal Code:	617-8555

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15204113

CORRESPONDENCE DATA

Fax Number: (703)390-1277

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 703 390 9051

Email: info@sbpatentlaw.com

Correspondent Name: STUDEBAKER & BRACKETT PC 12700 SUNRISE VALLEY DRIVE Address Line 1:

Address Line 2: SUITE 102

Address Line 4: RESTON, VIRGINIA 20191

ATTORNEY DOCKET NUMBER:	002000-000280	
NAME OF SUBMITTER:	JONATHAN L. SCHERER	
SIGNATURE:	/Jonathan L. Scherer/	
DATE SIGNED:	07/07/2016	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

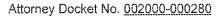
PATENT REEL: 039099 FRAME: 0918 503904712

Total Attachments: 10 source=Dec_Assignment#page1.tif source=Dec_Assignment#page2.tif source=Dec_Assignment#page3.tif source=Dec_Assignment#page4.tif source=Dec_Assignment#page5.tif source=Dec_Assignment#page6.tif source=Dec_Assignment#page7.tif source=Dec_Assignment#page8.tif source=Dec_Assignment#page9.tif source=Dec_Assignment#page9.tif source=Dec_Assignment#page10.tif

PATENT REEL: 039099 FRAME: 0919



Title of Invention:	
ELECTRONIC COMPONENT AND ME	THOD OF MANUFACTURING THE SAME
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





発明者の署名/ Signature

Mosaki

Kitajima

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

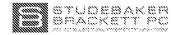
The inventor declaration for said application is combined herewith.
[X] said application to be filed in the United States Patent and Trademark Office;
[] said application having been filed in the United States Patent and Trademark Office on, authorization being hereby given to the practitioners associated with <u>STUDEBAKER & BRACKETT PC's CUSTOMER NUMBER 78198</u> , 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 MURATA MANUFACTURING CO., LTD. of 10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto-fu 617-8555 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 assigner, the receipt of which is hereby acknowledged, said assigner 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 assigner 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.
発明考氏名/ Legal Name of Inventor

Page 2 of 2

Masaki KITAJIMA

June 23, 2016

日付/ Date

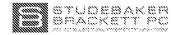


Title of Invention:	
ELECTRONIC COMPONENT AND ME	THOD OF MANUFACTURING THE SAME
私は、以下に記名された発明者として、ここに下記 の通り宣言する:	As a below named inventor, I hereby declare that:
本宣言書は、以下の出願に対するものである:	This declaration is directed to:
□ 添付された出願、あるいは、□ 米国出願番号またはPCT国際出願番号は、□ であり、且つ□ の日に出願された出願(該当する場合)	☐ The attached application, or ☐ United States application or PCT international application number filed on
上記出顧書(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: <u>11/15/2012</u>

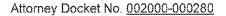


WHEREAS the undersigned, hereinafter referred to as the assignor, has invented a certain improvement relating to the above identified application.

The inventor declaration for said application is combined	ed herewith.
[X] said application to be filed in the United States Par	tent and Trademark Office;
[] said application having been filed in the United State authorization being hereby given to the practitioners as <u>CUSTOMER NUMBER 78198</u> , to insert here in parent application serial number of said application when known	sociated with <u>STUDEBAKER & BRACKETT PC's</u> heses (Application Serial No) the
[] said application having been filed under the Patent C Serial No, the United St	Cooperation Treaty on, as ates of America being designated.
AND WHEREAS MURATA MANUFACTURIN	G CO., LTD. of 10-1. Higashikotari 1-chome.
Nagaokakyo-shi, Kyoto-fu 617-8555 JAPAN, hereinafte the entire right, title and interest in and to said applicati thereof, and in and to said invention and any and all parall renewals, reissues and prolongations thereof;	er referred to as the assignee, is desirous of acquiring on, including any and all divisions and continuations
NOW, that for and in consideration of One Doll paid by said assignee to said assigner, the receipt of w assigns, sells and transfers to said assignee, and said exclusive right, title and interest in and to said application thereof, and in and to said invention and any and all pall renewals, reissues and prolongations thereof; said at to have, hold, exercise and enjoy the said application, in and the said invention and any and all patents which m reissues and prolongations thereof, with all the rights, prom or appertaining thereto, for and during the term or including any and all renewals, reissues and prolongation and said assignee's successors and assigns, in as amy or could have held and enjoyed the same, if this assign	assignee's successors and assigns, the full and on, including any and all divisions and continuations tents which may be granted therefor, including any and assignee, and said assignee's successors and assigns, including any and all divisions and continuations thereof, any be granted therefor, including any and all renewals, powers, privileges and advantages in anywise arising terms of any and all such patents when granted, ions thereof, for the use and benefit of said assignee, ple and beneficial a manner as the said assigner might
AND said assignor hereby agrees to perform, a successors or assigns, any and all acts relating to the any and all renewals, reissues and prolongations there	
AND said assignor authorizes and requests the Letters Patent on said application, and on any and all disaid assignee's successors and assigns, in accordance	e Commissioner of Patents and Trademarks to issue visions and continuations thereof, to said assignee, and a 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 ha opposite the undersigned name.	as been executed by the undersigned on the date
発明者氏名/ Legal Name of Inventor	Takashi TOMOHIRO
発明者の署名/ Signature Takashi Tomo Nivo	8付1 Date Julye 23,2016
L. C.	



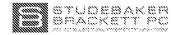
Title of Invention:	
ELECTRONIC COMPONENT AND ME	THOD OF MANUFACTURING THE SAME
私は、以下に記名された発明者として、ここに下記 の通り宣言する:	As a below named inventor, I hereby declare that:
本宣言書は、以下の出願に対するものである:	This declaration is directed to:
□ 添付された出願、あるいは、□ 米国出願番号またはPCT国際出願番号は、□ であり、且つ□ の日に出願された出願(該当する場合)	The attached application, 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



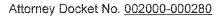


WHEREAS the undersigned, hereinafter referred to as the assignor, has invented a certain improvement relating to the above identified application.

The inventor declaration for said applicat	ion is combined herewith.
[X] said application to be filed in the Uni	ited States Patent and Trademark Office;
authorization being hereby given to the p	ne United States Patent and Trademark Office on,
[] said application having been filed und Serial No,	er the Patent Cooperation Treaty on, as the United States of America being designated.
Nagaokakyo-shi, Kyoto-fu 617-8555 JAP the entire right, title and interest in and to	NUFACTURING CO., LTD. of 10-1, Higashikotari 1-chome, AN, hereinafter referred to as the assignee, is desirous of acquiring a said application, including any and all divisions and continuations any and all patents which may be granted therefor, including any and thereof;
paid by said assignee to said assignor, the assigns, sells and transfers to said assign exclusive right, title and interest in and to thereof, and in and to said invention and all renewals, reissues and prolongations to have, hold, exercise and enjoy the said and the said invention and any and all pareissues and prolongations thereof, with from or appertaining thereto, for and durincluding any and all renewals, reissues	on of One Dollar (\$1.00), and other good and valuable consideration the receipt of which is hereby acknowledged, said assignor hereby nee, and said assignee's successors and assigns, the full and said application, including any and all divisions and continuations any and all patents which may be granted therefor, including any and thereof; said assignee, and said assignee's successors and assigns, application, including any and all divisions and continuations thereof, attents which may be granted therefor, including any and all renewals, all the rights, powers, privileges and advantages in anywise arising ng the term or terms of any and all such patents when granted, and prolongations thereof, for the use and benefit of said assignee, igns, in as ample and beneficial a manner as the said assignor might a, if this assignment had not been made.
AND said assignor hereby agree successors or assigns, any and all acts r any and all renewals, reissues and prolor	is to perform, upon the request of said assignee, or said assignee's elating to the obtaining or to the asserting of said patents, including ngations thereof.
	nd requests the Commissioner of Patents and Trademarks to issue any and all divisions and continuations thereof, to said assignee, and 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 A opposite the undersigned name.	Assignment has been executed by the undersigned on the date
発明者氏名/ Legal Name of Inventor	Gota SHINOHARA
発明者の署名/ Signature	1961 Date 1947 д. 1951 — 23, 2016
	(



Title of Invention:	
ELECTRONIC COMPONENT AND ME	THOD OF MANUFACTURING THE SAME
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



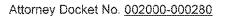


WHEREAS the undersigned, hereinafter referred to as the assignor, has invented a certain improvement relating to the above identified application.

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 <u>STUDEBAKER & BRACKETT PC's CUSTOMER NUMBER 78198</u> , 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 MURATA MANUFACTURING CO., LTD. of 10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto-fu 617-8555 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 Hironori SUZUKI	
発明者の署名/ Signature 目付/ Date	



Title of Invention:						
ELECTRONIC COMPONENT AND METHOD OF MANUFACTURING THE SAME						
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					
上記出顧書(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: <u>11/15/2012</u>					





RECORDED: 07/07/2016

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 <u>STUDEBAKER & BRACKETT PC's CUSTOMER NUMBER 78198</u> , 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 MURATA MANUFACTURING CO., LTD. of 10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto-fu 617-8555 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,

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.

or could have held and enjoyed the same, if this assignment had not been made.

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

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	ľ		
	- \	riko SHIMIZU	
発明者の署名/ Signature NOvil	o Shlmizu	June.	23,201b

Page 2 of 2