505159019 10/25/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5205786

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAKAHIRO OKA	10/23/2018
YOSHITAKE YAMAGAMI	10/23/2018
YUKI TAKEMORI	10/23/2018
KAZUO KISHIDA	10/23/2018
HIROMICHI KAWAKAMI	10/23/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16170427

CORRESPONDENCE DATA

Fax Number: (212)484-3990

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: 212-484-3900

Email: patentdocket@arentfox.com, inga.hildreth@arentfox.com

Correspondent Name: ARENT FOX LLP

Address Line 1: 1301 AVENUE OF THE AMERICAS

Address Line 2: FLOOR 42

Address Line 4: NEW YORK, NEW YORK 10019

ATTORNEY DOCKET NUMBER:	036433.04010	
NAME OF SUBMITTER:	INGA HILDRETH	
SIGNATURE:	/IH/	
DATE SIGNED:	10/25/2018	
This document serves as an Oath/Declaration (37 CFR 1.63).		

PATENT 505159019 REEL: 047310 FRAME: 0282

Total Attachments: 5

source=036433_04010_Executed_declaration_assignment_documents#page1.tif source=036433_04010_Executed_declaration_assignment_documents#page2.tif source=036433_04010_Executed_declaration_assignment_documents#page3.tif source=036433_04010_Executed_declaration_assignment_documents#page4.tif source=036433_04010_Executed_declaration_assignment_documents#page5.tif

PATENT REEL: 047310 FRAME: 0283

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT Title of MULTILAYER CERAMIC SUBSTRATE Invention As the below named inventor, I declare that: This declaration is directed to: x The attached application, or United States application or PCT international application number filed on The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understand the contents of the above-identified application, including the claims. I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application. For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, as assignor, hereby sell, assign and set over to Murata Manufacturing Co., Ltd., having an address at 10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan, as assignee, the entire right, title and interest for the United States and all other countries in and to all inventions disclosed and/or claimed in the above-identified application, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting there from to said assignee herein, as assignee of the entire interest therein; and the undersigned for myself and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said inventions in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee. The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment. All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both, and may jeopardize the validity of the application or any patent issuing thereon. LEGAL NAME OF INVENTOR Date October 23, 2018 Takahiro Oka Inventor: **Signature:

** An electronic S-signature is permitted. The S-signature must consist only of letters, or Arabic numerals, or both, with appropriate spaces and commas, periods, apostrophes, or hyphens for punctuation, and the person signing the correspondence must insert his or her own S-signature with a first single forward slash mark before and a second single forward slash mark after the S-signature (e.g., /Dr. James T. Jones, Jr./).

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Title of Invention	MULTILAYER CERAMIC SUBSTRATE	
As the below	v named inventor, I declare that:	
This declars is directed to	•••••	
The above-ide	entified application was made or authorized to be made by me.	
	I am the original inventor or an original joint inventor of a claimed invention in the application.	
I have review	ed and understand the contents of the above-identified application, including the claims.	
material to pa became avail	e the duty to disclose to the United States Patent and Trademark Office all information known to me to be itentability as defined in 37 GFR 1.56, including for continuation-in-part applications, material information which able between the filing date of the prior application and the national or PCT International filing date of the in-part application.	
assign and se Kyoto-fu 617- all inventions reissue applic of priority from Trademarks is herein, as ass assigns do he and other app communicate requested, to involved, to si successors, a	valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, as assignor, hereby sell, at over to Murata Manufacturing Co., Ltd., having an address at 10-1, Higashikotari 1-chome, Nagaokakyo-shi, 8555, Japan, as assignee, the entire right, title and interest for the United States and all other countries in and to disclosed and/or claimed in the above-identified application, all original, divisional, continuation, substitute or cations and patents applied for or granted therefor in the United States and all other countries, including all rights in the filing of said application, and all rights for past infringement, and the Commissioner of Patents and is hereby authorized and requested to issue all patents on said inventions or resulting there from to said assignee signee of the entire interest therein; and the undersigned for myself and my legal representatives, heirs and receby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue oblications for Patent on said inventions and all assignments thereof to said assignee or its assigns, to to said assignee or its representatives all facts known to the undersigned respecting said inventions, whenever testify in any interferences or other legal proceedings in which any of said applications or patents may become ign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its incident to said applications to be borne and paid by said assignee.	
	ned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or which would conflict with this assignment.	
believed to be are punishab	s made herein of my/our own knowledge are true, all statements made herein on information and belief are true, and further that these statements were made with the knowledge that willful false statements and the like le under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both, and may jeopardize the application or any patent issuing thereon.	
LEGAL NAM	ME OF INVENTOR	
Inventor:	Yoshitake Yamagami Date: October 23, 2018	
**Signature:	Yoshitake Yamagami	

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LEGAL NAME OF INVENTOR		
Inventor:	Yuki Takemori	Date: October 23, 2018
**Signature: _	Yuki Takemori	

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Inventor: Hiromichi Kawakami Date: Octdor: 23, 2018

**Signature: Hiromichi Kawakami

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