PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5673023

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KENJI KISHIMOTO	05/31/2019
MASAHIRO MOROOKA	05/19/2019
KEISUKE SHIMIZU	05/15/2019
JUSUKE SHIMURA	05/16/2019

RECEIVING PARTY DATA

Name:	MURATA MANUFACTURING CO., LTD.	
Street Address:	et 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:	16439990

CORRESPONDENCE DATA

Fax Number: (312)827-8185

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: 3123721121

Email: cipatents@klgates.com

Correspondent Name: K&L GATES LLP Address Line 1: P.O. BOX 1135

Address Line 4: CHICAGO, ILLINOIS 60690-1135

ATTORNEY DOCKET NUMBER:	3724795.00239
NAME OF SUBMITTER:	THOMAS C. BASSO
SIGNATURE:	/Thomas C. Basso/
DATE SIGNED:	08/16/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

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PATENT REEL: 050077 FRAME: 0754

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT	
Title of Invention	CURRENT BLOCKING ELEMENT, CURRENT BLOCKING ELEMENT ASSEMBLY, PRODUCT HAVING THESE MOUNTED THEREON, AND CURRENT CONTROLLING METHOD IN PRODUCT HAVING THESE MOUNTED THEREON
As the below	v named inventor, I declare that:
This declarated to	
	United States application or PCT international application number filed on
The above-ide	entified application was made or authorized to be made by me.
I believe that	l 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 tentability as defined in 37 CFR 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 n-part application.
assign and se Kyoto-fu 617- all inventions reissue applic of priority fror Trademarks i herein, as ass assigns do he and other app communicate requested, to involved, to s 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 eations and patents applied for or granted therefor in the United States and all other countries, including all rights in the filling of said application, and all rights for past infringement, and the Commissioner of Patents and shereby 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 eareby 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 assigns and nominees to obtain patent protection for said inventions in the United States and all other countries, 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.
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 NAM	ME OF INVENTOR
Inventor:	Kenji KISHIMOTO Date: May 31, 2019
**Signature:	9, 3, 9, 1, 1

** 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./).

Attorney Docket No. 3724795-00239

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT CURRENT BLOCKING ELEMENT, CURRENT BLOCKING ELEMENT ASSEMBLY, Title of PRODUCT HAVING THESE MOUNTED THEREON, AND CURRENT CONTROLLING Invention METHOD IN PRODUCT HAVING THESE MOUNTED THEREON 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 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: 19th May 2019 Masahiro MOROOKA Inventor: **Signature:

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This declaration is directed to: X The attached application, or	Invention PRODUCT HAVING THESE MOUNTED THEREON, AND CURRENT CONTROLLING	
is directed to: X The attached application, or	As the below named inventor, I declare that:	
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, tile 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 in including all rights of priority from the filing of said application, and all rights for past infingement, and the Commission or 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 representatives all rightiful oaths, and to degenerally exerything necessary to assist assignee, it	is directed to:	
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$\gamma = 1 \cdot 1$	LEGAL NAME OF INVENTOR	
**Signature: <u>Leische Stringn</u>	Inventor: Keisuke SHIMIZU Date: 1.5 May, 20//	
/	**Signature: <u>Leusche Stringe</u>	

** 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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As the below	v named inventor, I declare that:
This declars is directed to	
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LEGAL NA	ME OF INVENTOR
Inventor:	Jusuke SHIMURA Date: May 16th, 2019
**Signature	EM GRA

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PATENT REEL: 050077 FRAME: 0759

RECORDED: 08/16/2019