504219109 02/08/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4265786

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ISSEI YAMAMOTO	01/27/2017
ATSUSHI SHIMIZU	01/27/2017
YOICHI TAKAGI	02/05/2017
HIDEO NAKAGOSHI	02/06/2017
TORU KOMATSU	01/27/2017
HIDEKI SHINKAI	01/27/2017
TETSUYA ODA	01/27/2017

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:	15427721

(703)390-1277

CORRESPONDENCE DATA

Fax Number:

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
Address Line 1:	8255 GREENSBORO DRIVE
Address Line 2:	SUITE 300
Address Line 4:	TYSONS, VIRGINIA 22102

ATTORNEY DOCKET NUMBER: 002000-000327		
NAME OF SUBMITTER: JONATHAN L. SCHERER		
SIGNATURE:	/Jonathan L. Scherer/	
DATE SIGNED:	02/08/2017	

	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 14	
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source=M16-5980_DEC_ASN#page12.t	if
source=M16-5980_DEC_ASN#page13.t	if
source=M16-5980_DEC_ASN#page14.1	if



Title of Invention:			
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 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: H		
	Date: <u>11/15/2012</u>		



Attorney Docket No. 002000-000327

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 under the Patent Cooperation Treaty on ______, as Serial No. ______, the United States of America being designated.

AND WHEREAS <u>MURATA MANUFACTURING CO., LTD.</u> of <u>10-1. Higashikotari 1-chome</u>. <u>Nagaokakyo-shi, Kyoto-fu 617-8555 JAPAN</u>, 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 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; 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.

発明者氏名/ Legal Name of Inventor	
	Issei YAMAMOTO
発明者の署名/ Signature	日村/ Date: Manuary 27, 2017

Page 2 of 2

PATENT REEL: 041205 FRAME: 0259



Title of Invention:			
VACUUM DEVICE			
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		
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	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: H		
	Date: <u>11/15/2012</u>		



The inventor declaration for said application is combined herewith.

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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 continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, 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 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.

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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		
		Atsushi Sł	HMIZU
発明者の署名/ Signature	Atsushi Shimizu	日付/ Date	January. 27. 2017



Title of Invention:		
VACUUM DEVICE		
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:	
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	Signature:	
	Date: <u>11/15/2012</u>	



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 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 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, 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, including the term or terms of any and all such patents when granted, and assignee's successors and assignee, and said assignee's successors and assignee, in a sample and beneficial a manner as the said assignee, and said assignee's have held and enjoyed the same, if this assignment had not been made.

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発明者氏名/ Legal Name of Inventor			*********			
		Yoichi TAK	AGI			
- 嘉明者の署名/ Signature - Yoi chi	Tiles;	8 (†/ Date	5	February.	2017	

Page 2 of 2

PATENT REEL: 041205 FRAME: 0263



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

والمحافظ والمتحافظ فتتح والتك

Title of Invention:					
VACUUM DEVICE					
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:				
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懲罰を受けることを認める。	STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):				
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	Signature: IC				
	Date: <u>11/15/2012</u>				



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</u> <u>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 <u>MURATA MANUFACTURING CO., LTD.</u> of <u>10-1, Higashikotari 1-chome</u>, <u>Nagaokakyo-shi, Kyoto-fu 617-8555 JAPAN</u>, 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;

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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	
	Hideo NAKAGOSHI
発明者の署名/Signature 中天文 英化王	B付/Date 06/FEB/2017



Title of Invention:					
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:				
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発明者氏名/ Legal Name of Inventor	
	Toru KOMATSU
発明者の署名/Signature ファムアル Komのものい	日付/Date January, 27. 2017



Title of Invention:					
VACUUM DEVICE					
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				
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、本米国出験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: H				
	Date: <u>11/15/2012</u>				

Page 1 of 2



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</u> <u>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 <u>MURATA MANUFACTURING CO., LTD.</u> of <u>10-1, Higashikotari 1-chome,</u> <u>Nagaokakyo-shi, Kyoto-fu 617-8555 JAPAN</u>, 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 continuations thereof, and in vention 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.

発明者氏名/ Legal Name of	Inventor		***************************************			
		Hideki SH	IINKAI			
発明者の署名/ Signature	Lideki Shinkai	日付/ Date	January	17	2017	
			/	/	,,	





Title of Invention:					
VACUUM DEVICE					
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: The attached application, or United States application or PCT international application number				
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	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: 72-22- Date: <u>11/15/2012</u>				



The inventor declaration for said application is combined herewith.

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

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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 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.

発明者氏名/ Legal Name o	f Inventor					****
			Tetsuya Ol	DA		
発明者の署名/ Signature	Tetsuria	Oda	日付/ Date	January	27	2017
	7					<i>jj</i> ,2

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PATENT REEL: 041205 FRAME: 0271

RECORDED: 02/08/2017