### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5281254

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### **CONVEYING PARTY DATA**

Name	Execution Date
TAICHIRO TAMIDA	11/16/2018
TAKAHIRO INOUE	11/16/2018
TAKASHI HASHIMOTO	11/20/2018
AKIHIKO IWATA	11/16/2018
SHUHEI KOYAMA	11/20/2018
TAKAHIKO KOBAYASHI	11/21/2018

#### **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:	16309532

#### **CORRESPONDENCE DATA**

Fax Number: (703)413-2220

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) 413-3000 sarguijo@oblon.com Email: **Correspondent Name:** OBLON, ET AL. Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	518696US
NAME OF SUBMITTER:	SARAH ARGUIJO
SIGNATURE:	/Sarah Arguijo/
DATE SIGNED:	12/13/2018

**Total Attachments: 6** 

**PATENT** REEL: 047823 FRAME: 0036

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Title of Invention	CONVERSION APPARATUS	
As the below name	d inventor, I hereby declare that:	
This declaration	The attached application, or	
is directed to:	United States application or PCT international application number PCT/JP2017/021348 filed on June 8, 2017	
The above-identifie	ed application was made or authorized to be made by me.	
[ believe that [ am t	the original inventor or an original joint inventor of a claimed invention in the application.	
WHEREAS, Mitsubishi Electric Corporation (hereinafter referred to as "ASSIGNEE") having places of business at: 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310, Japan, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;		
NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.		
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.		
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.		
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.		
LEGAL NAME OF		
Inventor: Taichir	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Signature: <u>Ta</u>	: Liw Tamida	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention   ELECTROSTATIC CAPACITANCE DETECTION DEVICE AND POWER   CONVERSION APPARATUS		
As the below named inventor, I hereby declare that:		
This declaration   The attached application, or		
is directed to: United States application or PCT international application number PCT/JP2017/021348 filed on June 8, 2017 .		
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,		
WHEREAS, Mitsubishi Electric Corporation		
(hereinafter referred to as "ASSIGNEE") having places of business at: 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310, Japan, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;		
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LEGAL NAME OF INVENTOR		
Inventor: Takahiro INOUE Date: November 16 - 2018		
Signature: Takahīro INOUE		

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

Inte of Invention	CONVERSION APPARATUS	
As the below name	d inventor, I hereby declare that:	
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The above-identific	ed application was made or authorized to be made by me.	
I believe that I am	he original inventor or an original joint inventor of a claimed invention in the application.	
(hereinafter referre 1008310, Japan, is	subishi Electric Corporation I to as "ASSIGNEE") having places of business at: 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo desirous of acquiring the entire right, title and interest in and to said invention and in and to any nay be granted therefore in the United States and its territorial possessions and in any and all foreign	
acknowledged, and ASSIGNEE, the fu all foreign countric relevant Internation in and to any and a	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ll and exclusive right to the said invention in the United States and its territorial possessions and in s (including the right to claim priority under the terms of the International Convention and other sail Treaties and Arrangements from the aforesaid application) and the entire right, title and interest ll Letters Patent which may be granted therefor in the United States and its territorial possessions foreign countries and in and to any and all divisions, reissues, continuations, substitutions and	
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by fine or imprisor	viedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.	
LEGAL NAME OF INVENTOR		
Inventor: Takash	HASHIMOTO Date: November 20, 2018	
Signature:	okashi Hashinoto	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

Inte of Invention	CONVERSION APPARATUS		
As the below name	d inventor, I hereby declare that:		
This declaration	The attached application, or		
is directed to:	United States application or PCF international application number PCF/JP2017/021348 filed on June 8, 2017		
The above-identifie	d application was made or authorized to be made by me.		
I believe that I am t	he original inventor or an original joint inventor of a claimed invention in the application.		
(hereinafter referred 1008310, Japan, is	WHEREAS, Mitsubishi Electric Corporation (hereinafter referred to as "ASSIGNEE") having places of business at: 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310, Japan, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries:		
NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.			
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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.			
LEGAL NAME OF INVENTOR			
Inventor: Akihik	OIWATA Date: November 16.2018		
Signature:	hipipo luota		

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET

ALEXANDRIA, VIRGINIA 22314

	ELECTROSTATIC CAPACITANCE I CONVERSION APPARATUS	DETECTION DEVICE AND POWER
As the below named	inventor, I hereby declare that:	
This declaration $\square$	The attached application, or	
is directed to:	United States application or PCT internation filed on June 8, 2017	***************************************
The above-identified	I application was made or authorized to be m	ade by me.
I believe that I am th	e original inventor or an original joint invent	or of a claimed invention in the application.
WHEREAS, Mitsubishi Electric Corporation (hereinafter referred to as "ASSIGNEE") having places of business at: 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310. Japan, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;		
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LEGAL NAME OF INVENTOR		
Inventor: Shuhei F	(OYAMA	Date: November 20, 2018
Signature: Shu	hei KOYAMA	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

Title of Invention	ELECTROSTATIC CAPACITA CONVERSION APPARATUS	NCE DETECTION DEVICE AND POWER	
As the below name	d inventor, I hereby declare that:		
This declaration	This declaration   The attached application, or		
is directed to:	United States application or PCT inte filed on June 8, 2017	ernational application number PCT/JP2017/021348	
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LEGAL NAME OF INVENTOR			
Inventor: Takahi	ko KOBAYASHI	Date: November 21, 2018	
Signature: 70	Kabiba KUBAYASH		

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 047823 FRAME: 0043

**RECORDED: 12/13/2018**