### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6217019

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
DAISUKE GOTO	06/23/2020
YOSHITOMO HAYASHI	06/23/2020
YUSUKE ONO	06/23/2020
TAKESHI OBARA	06/23/2020

### **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:	29743816

#### **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 **Address Line 1:** 8255 GREENSBORO DRIVE

Address Line 2: SUITE 300

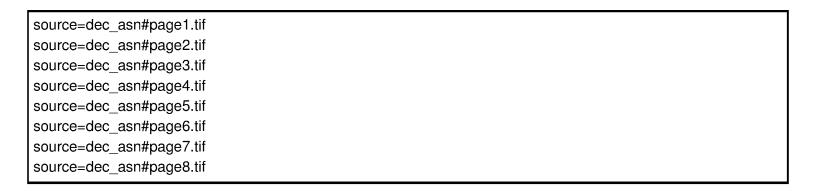
Address Line 4: TYSONS, VIRGINIA 22102

ATTORNEY DOCKET NUMBER:	002500-ME0339	
NAME OF SUBMITTER:	DONALD R. STUDEBAKER	
SIGNATURE:	/Donald R. Studebaker/	
DATE SIGNED:	07/24/2020	
This document serves as an Oath/Declaration (37 CFR 1.63).		

**Total Attachments: 8** 

PATENT REEL: 053301 FRAME: 0940

506170282



PATENT REEL: 053301 FRAME: 0941



Title of Invention:	
CONVERTER	
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
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。 私は、本米国出願の請求範囲で記載された発明に対	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.
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 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):
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1901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。	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: 71/15/2012  Date: 11/15/2012

Page 1 of 8



### Attorney Docket No. <u>002500-ME</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 h	
[X] said application to be filed in the United States Patent	
[ ] said application having been filed in the United States F	
authorization being hereby given to the practitioners assoc	
CUSTOMER NUMBER 78198, to insert here in parenthes	es (Application Serial No) the
application serial number of said application when known; [ ] said application having been filed under the Patent Cool	Assertion Transity on
Serial No, the United States	
Serial No, the Officer States	of America being designated.
AND WHEREAS MITSUBISHI ELECTRIC CORPO	ORATION of 7-3 Marunouchi 2-chome.
Chiyoda-ku, Tokyo 100-8310 JAPAN, hereinafter referred	
entire right, title and interest in and to said application, inclu-	
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 (	
paid by said assignee to said assignor, the receipt of which	
assigns, sells and transfers to said assignee, and said ass	
exclusive right, title and interest in and to said application,	
thereof, and in and to said invention and any and all patent	
all renewals, reissues and prolongations thereof; said assignment	
to have, hold, exercise and enjoy the said application, include	
and the said invention and any and all patents which may be reissues and prolongations thereof, with all the rights, powers	
from or appertaining thereto, for and during the term or ten	
including any and all renewals, reissues and prolongations	
and said assignee's successors and assigns, in as ample	
or could have held and enjoyed the same, if this assignme	
AND said assignor hereby agrees to perform, upor	
successors or assigns, any and all acts relating to the obta	
any and all renewals, reissues and prolongations thereof.	n national en la contra en en entre on en entre de servicion de la contra del la contra del la contra del la contra del la contra de la contra de la contra del la
AND said assignor authorizes and requests the Co	mmissioner of Patents and Trademarks to issue
Letters Patent on said application, and on any and all division	
said assignee's successors and assigns, in accordance he	
The undersigned hereby grants the law firm of STUDEBAK	
Assignment portion of this combined Declaration and Assig	
necessary or desirable in order to comply with the rules of	the U.S. Patent and Trademark Office for
recordation of this document.	and the second of the second o
This combined Declaration and Assignment has been exec	cuted by the undersigned on the date opposite the
undersigned name.	
発明者氏名/ Legal Name of Inventor	
Da	suke GOTO
	Date
Dawles Stato	June 23 . 2020



Title of Invention:	
CONVERTER	
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:      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、	This declaration is directed to:  The attached application, or United States application or PCT international application number
であり、且つ の日に出願された出願(該当 する場合)	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	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
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 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.
2 C.II. 5 C. 1 20	STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):
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。	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: 11/15/2012  Date: 11/15/2012



### Attorney Docket No. 002500-ME

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 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 MITSUBISHI ELECTRIC CORPORATION of 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8310 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;	
発明者氏名/ Legal Name of Inventor Yoshitomo HAYASHI	
発明者の署名/ Signature 日付/ Date	
June 23 2020	



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Title of Invention:	
CONVERTER	
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:
<ul><li></li></ul>	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、本米国出願の請求範囲で記載された発明に対	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
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 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.
ache de a	STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):
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	Signature: 7/2— Date: 11/15/2012

Page 5 of 8



Attorney Docket No. <u>002500-ME</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 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 MITSUBISHI ELECTRIC CORPORATION of 7-3, Marunouchi 2-chome.	
Chiyoda-ku, Tokyo 100-8310 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 assignee, and said assignee 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 thi	
發明者氏名/ Legal Name of Inventor Yusuke ONO	
発明者の署名/ Signature 日付/ Date	
Yusuke Ono June 23. 2020	

Page 6 of 8



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Title of Invention:	
CONVERTER	
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:   ※ 添付された出願、あるいは、  ※ 無因出願番号または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)	This declaration is directed to:  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。 私は、本米国出願の請求範囲で記載された発明に対	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,
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### Attorney Docket No. 002500-ME

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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
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AND WHEREAS MITSUBISHI ELECTRIC CORPORATION of 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8310 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 Takeshi OBARA
発明者の署名/ Signature 日付/ Date
Jaheshi Obara June 23, 2020

Page 8 of 8

**RECORDED: 07/24/2020**