504625134 11/02/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4671852

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHIN SAKAI	04/20/2016
HITOMI YANAMURA	05/11/2016
TAKENORI BABA	05/11/2016

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:	29624657

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

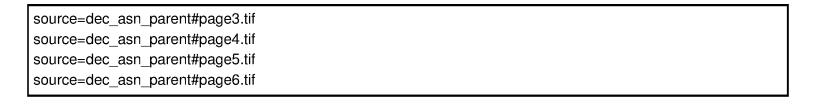
Address Line 4: TYSONS, VIRGINIA 22102

ATTORNEY DOCKET NUMBER:	002500-ME0217
NAME OF SUBMITTER:	DONALD R. STUDEBAKER
SIGNATURE:	/Donald R. Studebaker/
DATE SIGNED:	11/02/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6

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PATENT 504625134 REEL: 044022 FRAME: 0895



PATENT REEL: 044022 FRAME: 0896



Attorney Docket No. <u>002500-ME</u>

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

Title of Invention:	
MOTOR	
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
**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)	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.
ると信じている。	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: November 15, 2012

Page 1 of 6



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 MULTIPEAC MITCURIOU EL FOTRIC CORRORATION of 7.2 Marine cochi 2 charge
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
Shin SAKAI
発明者の署名/ Signature 日付/ Date
Shin Sakai April 20, 2016



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

Title of Invention:	
MOTOR	
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: 「然付された出願、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	This declaration is directed to: The attached application, or United States application or PCT international application number
の日に出願された出願(該当する場合)	
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.
10 (0) 0 (10 pm (0) 11 / 20 cm (10) 0 (0)	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
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	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.
ると信じている。	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: November 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 <u>MITSUBISHI ELECTRIC CORPORATION</u> of <u>7-3, Marunouchi 2-chome</u> , <u>Chiyoda-ku, Tokyo 100-8310 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 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 th
undersigned name.
発明者氏名/ Legal Name of Inventor Hitomi YANAMURA
発明者の署名/ Signature 日付/ Date
Hitomi Yanamura May, 11, 2016



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

Title of Invention:	
MOTOR	
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.
PCIE C CV S.	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: November 15, 2012

Page 5 of 6



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;
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 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 t
発明者氏名/ Legal Name of Inventor
Takenori BABA
発明者の署名/ Signature 日付/ Date
Takini Bala May 11, 2016

Page 6 of 6