PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5193264

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NOBORU KAWAGUCHI	08/21/2018
HIDETAKA YAMAUCHI	08/21/2018
KOJI HIROSE	08/21/2018

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:	29666977

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-ME0261	
NAME OF SUBMITTER: DONALD R. STUDEBAKER	
SIGNATURE: /Donald R. Studebaker/	
DATE SIGNED:	10/17/2018
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 6

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PATENT 505146498 REEL: 047201 FRAME: 0184



PATENT REEL: 047201 FRAME: 0185



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:	
MOTION ASSISTANCE APPARATUS	
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 filed on
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. I believe that I am the original inventor or an original joint
私は、本米国出願の請求範囲で記載された発明に対	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

Page 1 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;		
renewals, reissues and protongations 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.		
50.0D +V et h / 1 141		
発明者氏名/ Legal Name of Inventor Noboru KAWAGUCHI		
(
発明者の署名/ Signature 日付/ Date		
Noboru Kawaguchi August 21, 2018		



Attorney Docket No. 002500-ME

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

Title of Invention:	
MOTION ASSISTANCE APPARATUS	
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、 であり、且つ	This declaration is directed to: The attached application, or United States application or PCT international application number filed on
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.
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.
Jen	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: 4 11/15/2012

Page 3 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.

_	• •
[X] said application to be [] said application having authorization being herebused CUSTOMER NUMBER 7 application serial number [] said application having	for said application is combined herewith. filed in the United States Patent and Trademark Office; g been filed in the United States Patent and Trademark Office on, by given to the practitioners associated with STUDEBAKER & BRACKETT PC's 8198, to insert here in parentheses (Application Serial No) the of said application when known; g been filed under the Patent Cooperation Treaty on, as, the United States of America being designated.
AND WHEREAS	MITSUBISHI ELECTRIC CORPORATION of 7-3, Marunouchi 2-chome,
Chiyoda-ku, Tokyo 100-8 entire right, title and interes	310 JAPAN, hereinafter referred to as the assignee, is desirous of acquiring the est in and to said application, including any and all divisions and continuations thereof, on and any and all patents which may be granted therefor, including any and all
paid by said assignee to assigns, sells and transfe exclusive right, title and ir thereof, and in and to said all renewals, reissues and to have, hold, exercise an and the said invention an reissues and prolongation from or appertaining there including any and all rene and said assignee's succor could have held and er AND said assigne successors or assigns, ar any and all renewals, reis AND said assigne Letters Patent on said appsaid assignee's successor The undersigned hereby Assignment portion of this necessary or desirable in recordation of this docum	d in consideration of One Dollar (\$1.00), and other good and valuable consideration said assignor, the receipt of which is hereby acknowledged, said assignor hereby are to said assignee, and said assignee's successors and assigns, the full and atterest in and to said application, including any and all divisions and continuations d invention and any and all patents which may be granted therefor, including any and d prolongations thereof; said assignee, and said assignee's successors and assigns, d enjoy the said application, including any and all divisions and continuations thereof, d any and all patents which may be granted therefor, including any and all renewals, as thereof, with all the rights, powers, privileges and advantages in anywise arising eto, for and during the term or terms of any and all such patents when granted, evals, reissues and prolongations thereof, for the use and benefit of said assignee, essors and assigns, in as ample and beneficial a manner as the said assignee, essors and assigns, in as ample and beneficial a manner as the said assignee's proposed the same, if this assignment had not been made. On hereby agrees to perform, upon the request of said assignee, or said assignee's my and all acts relating to the obtaining or to the asserting of said patents, including issues and prolongations thereof. For authorizes and requests the Commissioner of Patents and Trademarks to issue oblication, and on any and all divisions and continuations thereof, to said assignee, and are and assigns, in accordance herewith. For grants the law firm of STUDEBAKER & BRACKETT PC the power to insert on the secombined Declaration and Assignment any further identification which may be order to comply with the rules of the U.S. Patent and Trademark Office for ent. For any Assignment has been executed by the undersigned on the date opposite the
発明者氏名/ Legal Name of Inve	
	Hidetaka YAMAUCHI
発明者の署名/ Signature	日付/ Date
Mido taka	Yamauch (August 21, 2018



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:	
MOTION ASSISTANCE APPARATUS	
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
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.
	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

Page 5 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	e 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	
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 designat	ed.
AND WHEREAS MITSUBISHI ELECTRIC CORPORATION of 7-3, Marunou	uchi 2-chome,
Chiyoda-ku, Tokyo 100-8310 JAPAN, hereinafter referred to as the assignee, is desired	
entire right, title and interest in and to said application, including any and all divisions an	d continuations thereof.
and in and to said invention and any and all patents which may be granted therefor, in	cluding any and all
renewals, reissues and prolongations thereof;	ordaning arry arra arr
NOW that for and in consideration of One Dellar (64.00), and other word and	
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, s	said assignor nereby
assigns, sells and transfers to said assignee, and said assignee's successors and ass	igns, the full and
exclusive right, title and interest in and to said application, including any and all division the conditions and any and all notates which may be applied the	ns and continuations
thereof, and in and to said invention and any and all patents which may be granted the	refor, including any and
all renewals, reissues and prolongations thereof; said assignee, and said assignee's s	uccessors and assigns,
to have, hold, exercise and enjoy the said application, including any and all divisions an	d continuations thereor,
and the said invention and any and all patents which may be granted therefor, including	g any and all renewals,
reissues and prolongations thereof, with all the rights, powers, privileges and advantage from or apportaining thereof, and during the term of any and all such materials.	jes in anywise arising
from or appertaining thereto, for and during the term or terms of any and all such pate	nts when granted,
including any and all renewals, reissues and prolongations thereof, for the use and be	nefit 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 assign	ee, 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 therec	of, 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 particular and the state of the particular and the particular and the state of the	
Assignment portion of this combined Declaration and Assignment any further identification	ation which may be
necessary or desirable in order to comply with the rules of the U.S. Patent and Traden	nark Office for
recordation of this document.	
This combined Declaration and Assignment has been executed by the undersigned or	n the date opposite the
undersigned name.	
発明者氏名/ Legal Name of Inventor	-14
Koji HIROSE	
発明者の署名/ Signature 日付/ Date	
Koji Hirose August 21, 2018	<u> </u>

Page 6 of 6

RECORDED: 10/17/2018