### 506149470 07/13/2020

EPAS ID: PAT6196202

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KEISUKE SUZUKI	06/09/2020
KAZUYA TAKAHASHI	06/08/2020
SATOSHI KANEKO	06/09/2020

#### **RECEIVING PARTY DATA**

Name:	HITACHI AUTOMOTIVE SYSTEMS, LTD.		
Street Address:	2520, TAKABA		
City:	HITACHINAKA-SHI, IBARAKI		
State/Country:	JAPAN		
Postal Code:	312-8503		

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16961560

#### **CORRESPONDENCE DATA**

**Fax Number:** (202)628-8844

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.

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**Email:** edocket@crowell.com. nbrown@crowell.com

Correspondent Name: CROWELL & MORING LLP

Address Line 1: P.O. BOX 14300

Address Line 4: WASHINGTON, D.C. 20044-4300

ATTORNEY DOCKET NUMBER: 110882.PD579US

NAME OF SUBMITTER: MICHAEL H. JACOBS

SIGNATURE: /Michael H. Jacobs/

DATE SIGNED: 07/13/2020

#### **Total Attachments: 3**

source=PD579US\_Combined-Assignment-and-Declaration#page1.tif source=PD579US\_Combined-Assignment-and-Declaration#page2.tif source=PD579US\_Combined-Assignment-and-Declaration#page3.tif

PATENT 506149470 REEL: 053185 FRAME: 0582

## ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

(For Use with Signed Application Data Sheet)

CONTROL APPARATUS FOR ELECTRIC VEHICLE, CONTROL SYSTEM FOR ELECTRIC VEHICLE,
AND CONTROL METHOD FOR ELECTRIC VEHICLE, CONTROL STSTEM FOR ELECTRIC VEHICLE,
This assignment and declaration are directed to (check one):  the application identified above by the attorney docket no. and title of invention  PCT International Application Number PCT/JP2019/000066, filed January 7, 2019  United States Application No
ASSIGNMENT
For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as a below-named inventor I have sold and assigned, and by these presents hereby sell and assign, unto:
Name of Assignee: Hitachi Automotive Systems, Ltd.
Address of Assignee: 2520, Takaba, Hitachinaka-shi, Ibaraki 312-8503 Japan
(hereinafter ASSIGNEE) all my right, title, and interest for the United States, its territories, and possessions in and to the above-identified invention and United States patent application, including any and all divisions or continuations thereof, and in and to any and all Letters Patent of the United States that may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, or assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made.
I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue any and all such Letters Patent to said ASSIGNEE, its successors, or assigns in accordance herewith.
I warrant and covenant that I have the full and unencumbered right to sell and assign the interests herein sold and assigned and that I have not executed and will not execute any document or instrument in conflict herewith.
I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives, or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings, and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives, or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent that may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, legal representatives, or assigns in obtaining, reissuing, or enforcing Letters Patent of the United States for said invention.
<u>DECLARATION</u>
As a below named inventor, I hereby declare that:
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.
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.
Signature: Leisuke Suzuki DATE  Signature: Leisuke Suzuki DATE

PATENT REEL: 053185 FRAME: 0583

# ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63 (For Use with Signed Application Data Sheet)

Title of Invention:			
CONTROL APPARATO	US FOR ELECTRIC VEHICLE,	CONTROL SYSTEM FOR EI	LECTRIC VEHICLE,
	HOD FOR ELECTRIC VEHICLE		
the application	claration are directed to (check identified above by the attorney nat Application Number PCT/II application No.	/docket no. and title of inver 2019/000066, filed January	7, 2019
	<i>ል ደኅይ</i> ባ <b>ሄ</b> ፊላ	rin nerintier	
		<u>VMENT</u>	
For good and valuable of below named inventor I	onsideration, the receipt and su have sold and assigned, and by	ifficiency of which are hereby these presents hereby sell as	y acknowledged, as a nd assign, unto:
Name of Assignee:	Hitachi Automotive System	ns, Lid.	
Address of Assignee:	2520, Takaba, Hitachinak	a-shi, Ibaraki 312-8503 J	apan
and to the above-identif continuations thereof, a such application or for s enjoyed by said ASSIG	i) all my right, title and interest icd invention and United States and in and to any and all Letters aid invention, including any an NEE, its successors or assigns to be granted as fully and entirely ade.	patent application, including Patent of the United States v d all reissues or extensions to the full end of the term or t	g any and all divisions or which may issue on any hereof, to be held and terms for which any and all
	equest the Director of the U.S.: SSIGNEE, its successors or assi		
	that I have the full and unencum have not executed and will not o		
or assigns all informatic and deliver any papers, acts deemed necessary operfect title to said inve- all Letters Patent which ASSIGNEE, its success	gree that I will communicate to at known to me relating to said make all rightful oaths, testify it or desirable by said ASSIGNEE ation, to said application includ may be granted therefor or ther ors or assigns, or to assist said a ssuing or enforcing Letters Pate	invention or patent application any legal proceedings and it, its successors, legal represeiing divisions and continuation, including reissues or exASSIGNEE, its successors, I	on and that I will execute perform all other lawful entatives or assigns to one thereof and to any and tensions, in said egal representatives or
	<u>DECLAI</u>	<u>RATION</u>	
As a below named inver	ntor, I hereby declare that:		
The above-identified ap	plication was made or authorize	ed to be made by me.	
I believe that I am the o	riginal inventor or an original je	oint inventor of a claimed in	ention in the application.
I hereby acknowledge the 1001 by fine or impriso	nat any willful false statement n noment of not more than five (5)	nade in this declaration is puryears, or both.	nishable under 18 U.S.C.
Signature: <u>Ly</u> Inventor: Kazuy	uya Tahadashi TAKAHASHI		06/08/2020 DATE

PATENT REEL: 053185 FRAME: 0584

# ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63 (For Use with Signed Application Data Sheet)

Title of Invention:			
CONTROL APPARA	TUS FOR ELECTRIC V	EHICLE, CONTROL SYSTE	M FOR ELECTRIC VEHICLE,
	THOD FOR ELECTRIC		
the application in the PCT Internation	al Application Number	(check one): attorney docket no. and title of PCT/JP2019/000066, filed Jan, filed	nuary 7, 2019
	<u>A</u> :	<u>SSIGNMENT</u>	
		ot and sufficiency of which are i, and by these presents hereby	
Name of Assignec:	Hitachi Automotive	e Systems, Ltd.	
Address of Assignee:	2520, Takaba, Hita	chinaka-shi, Ibaraki 312-t	3503 Japan
and to the above-identificontinuations thereof, a application or for said i by said ASSIGNEE, its	fied invention and Unite and in and to any and all nvention, including any successors, or assigns to tranted as fully and entir	ed States patent application, in Letters Patent of the United S and all reissues or extensions	, its territories, and possessions in cluding any and all divisions or states that may issue on any such thereof, to be held and enjoyed erms for which any and all such and enjoyed by me had this
		he U.S. Patent and Trademark rs, or assigns in accordance he	Office to issue any and all such rewith.
		unencumbered right to sell and will not execute any document	d assign the interests herein sold t or instrument in conflict
or assigns all informatic and deliver any papers, acts deemed necessary perfect title to said inve- all Letters Patent that m its successors, or assign	on known to me relating make all rightful oaths, or desirable by said ASS ention, to said applicationay be granted therefor eas, or to assist said ASSI	to said invention or patent ap testify in any legal proceedin SIGNEE, its successors, legal n including divisions and com	tinuations thereof and to any and or extensions, in said ASSIGNEE, epresentatives, or assigns in
	<u>DF</u>	<u>CLARATION</u>	
As a below named inve	ntor, I hereby declare th	nat:	
The above-identified ap	oplication was made or a	authorized to be made by me.	
I believe that I am the o	riginal inventor or an or	riginal joint inventor of a clair	med invention in the application.
	hat any willful false stat nment of not more than		n is punishable under 18 U.S.C.
Signature: Inventor: Satosh	Sato Shi i KANEKO	kaneko	6/09/20 DATE

PATENT REEL: 053185 FRAME: 0585

**RECORDED: 07/13/2020**