505360862 03/06/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5407650

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SATOSHI KANEKO	02/22/2019
KEISUKE SUZUKI	02/20/2019

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:	16330786

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.

Phone: 202-624-2500

Email: asaguros@crowell.com, edocket@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.PC141US
NAME OF SUBMITTER:	MICHAEL H. JACOBS
SIGNATURE:	/Michael H. Jacobs/
DATE SIGNED:	03/06/2019

Total Attachments: 2

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PATENT 505360862 REEL: 048519 FRAME: 0351

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

Title of Invention: CONTROL		, CONTROL MET	THOD, AND CONTROVEHICLE	OL SYSTEM
PCT Internation	identified above nal Application N	by the attorney docke Jumber <u>PCT/JP2017/</u>	et no. and title of invention 031704, filed September of the or of the other series of	n 4 <u>, 2017</u>
		<u>ASSIGNM</u>	ENT	
For good and valuable below-named inventor	consideration, the I have sold and	ne receipt and sufficient assigned, and by thes	ency of which are hereby a e presents hereby sell and	acknowledged, as a a assign, unto:
Name of Assignee:	Hitachi Auto	omotive Systems, L	atd.	
Address of Assignee	:: 2520, Takab	a, Hitachinaka-shi	, Ibaraki 312-8503 Jaj	oan
and to the above-identi continuations thereof, application or for said by said ASSIGNEE, it:	ified invention ar and in and to any invention, include s successors, or a granted as fully a	nd United States pate and all Letters Pater ling any and all reisson assigns to the full end	the United States, its territ nt application, including a nt of the United States tha nes or extensions thereof, I of the term or terms for have been held and enjoy	any and all divisions or t may issue on any such to be held and enjoyed which any and all such
I hereby authorize and Letters Patent to said A	request the Dire ASSIGNEE, its s	ctor of the U.S. Pater uccessors, or assigns	nt and Trademark Office t in accordance herewith.	o issue any and all such
I warrant and covenant and assigned and that I herewith.	t that I have the t I have not execu	full and unencumbere ted and will not execu	ed right to sell and assign ute any document or instru	the interests herein sold iment in conflict
or assigns all informat and deliver any papers acts deemed necessary perfect title to said inv all Letters Patent that its successors, or assig	ion known to me s, make all rightfor or desirable by cention, to said a may be granted to cons, or to assist so	e relating to said inve- ul oaths, testify in any said ASSIGNEE, its pplication including of therefor or thereon, in aid ASSIGNEE, its sa	ASSIGNEE, its successor ntion or patent application y legal proceedings, and p successors, legal represent livisions and continuation acluding reissues or exten- uccessors, legal representa- ed States for said invention	n and that I will execute perform all other lawful statives, or assigns to st thereof and to any and sions, in said ASSIGNEE, atives, or assigns in
		DECLARA	<u> TION</u>	
As a below named inv	entor, I hereby d	leclare that:		
The above-identified a	application was r	nade or authorized to	be made by me.	
I believe that I am the	original invento	r or an original joint i	inventor of a claimed inve	ention in the application.
I hereby acknowledge 1001 by fine or impris	that any willful conment of not n	false statement made nore than five (5) year	in this declaration is puns, or both.	ishable under 18 U.S.C.
Signature:	katoaki shi KANEKO	hampho	· · ·	02/22/2019
Inventor: Sato	shi KANEKO			DATE

PATENT REEL: 048519 FRAME: 0352

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

(For Use with Signed Application Data Sheet)

Titl	e of	`Inv	/en	tio	n:

	CONTROL	APPARATUS,	CONTROL	METHOD,	AND	CONTROL	SYSTEM	
			R ELECTR		CLE			
This ass	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/JP2017/031704, filed September 4, 2017								
	United States	Application No.		, filed				
					-			

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:

Hitachi Automotive Systems, Ltd. Name of Assignee:

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 which 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 which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors or assigns, or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention.

DECLARATION

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: Inventor:

Keisuke SUZUKI 02/20/20/9

DATE

PATENT REEL: 048519 FRAME: 0353

RECORDED: 03/06/2019