PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHIGERU TODA	05/28/2019
ATSUSHI KOIZUMI	05/28/2019

RECEIVING PARTY DATA

Name:	HONDA MOTOR CO., LTD.	
Street Address:	1-1, MINAMI-AOYAMA 2-CHOME	
Internal Address:	MINATO-KU	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	107-8556	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16445845	

CORRESPONDENCE DATA

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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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RANKIN HILL AND CLARK LLP **Correspondent Name:**

Address Line 1: 38210 GLENN AVENUE Address Line 4: WILLOUGHBY, OHIO 44094

ATTORNEY DOCKET NUMBER:	TOH-45904
NAME OF SUBMITTER:	DAVID E. SPAW
SIGNATURE:	/David E. Spaw/
DATE SIGNED:	06/19/2019

Total Attachments: 2

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> **PATENT** REEL: 049526 FRAME: 0027 505534195

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

	MODULE AND		

that are the subject of	an application fo	or a U.S. Patent,	(identified as Application No.
16/445845	filed on	06/19/2019), which application is
still further identified a	s Rankin, Hill &	Clark LLP Docke	et No. TOH-45904

WHEREAS, <u>HONDA MOTOR CO., LTD.</u>, a corporation of <u>JAPAN</u>, and having a place of business at <u>1-1</u>, <u>Minami-Aoyama 2-chome</u>, <u>Minato-ku</u>, <u>Tokyo 107-8556</u>, <u>JAPAN</u>, hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Rankin, Hill & Clark LLP the power to insert on this assignment any identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

PATENT 1 of 2
REEL: 049526 FRAME: 0028

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

		t); onigero i	
Signature:	Shigero	. Toda	
Today's Date	; May 28, 2019		
:			
	I. Shin-	<i>-</i>	Takao SHIONOYA
Witness:	_2;::::::::::::::::::::::::::::::::::::	1/2000	Ryuichi KIMATA
Inventor Nan	ne (joint):	Atsushi KOIZUMI	
		isymi	
	e: May 28, 2019		
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Witness:	T. Shim	nje Dinesta	Takao SHIONOY/
Witness:	Bound ha	Winsto	Ryuichi KIMATA
	rie (joirit).		
	3		
#			
Witness:			
Witness:			
Inventor Nar	ne (joint):		
Signature: _			
Today's Date			
	e:		

Witness:	e;		

RECORDED: 06/19/2019

PATENT 2 of 2

REEL: 049526 FRAME: 0029