

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT7861710

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KOJI MORIYAMA	02/03/2023
RICHARD Y. ASATO	02/03/2023
RYOSUKE SHIBATA	03/20/2023
BRIAN MORAN	02/23/2023
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HONDA MOTOR CO., LTD.
<b>Street Address:</b>	1-1, MINAMI-AOYAMA 2-CHOME
<b>Internal Address:</b>	MINATO-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	107-8556
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	18188547
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Phone:</b>	216-566-9700
<b>Email:</b>	overberger@rankinhill.com
<b>Correspondent Name:</b>	RANKIN, HILL & CLARK LLP
<b>Address Line 1:</b>	23755 LORAIN ROAD
<b>Address Line 2:</b>	SUITE 200
<b>Address Line 4:</b>	NORTH OLMSTED, OHIO 44070
<b>ATTORNEY DOCKET NUMBER:</b>	HRA-53648
<b>NAME OF SUBMITTER:</b>	JACK D. GAU
<b>SIGNATURE:</b>	/Jack D. Gau/
<b>DATE SIGNED:</b>	03/23/2023
<b>Total Attachments: 7</b>	

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WHEN RECORDED RETURN TO:  
RANKIN, HILL & CLARK LLP

PATENT APPLICATION  
Docket No.: HRA-53648

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ASSIGNMENT

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I/We the undersigned, hereinafter collectively referred to as "Assignor", have made  
an invention entitled

RESOURCE MANAGEMENT

Preferred embodiments of said invention are disclosed in a United States patent  
application which:

X      Is executed concurrently herewith for filing in the United States Patent and  
Trademark Office and has been assigned Application Serial No.  
with a filing date of

Was previously filed in the United States Patent and Trademark Office  
on            as Application Serial No.

Is a United States National Application of PCT International Application  
No.            filed

(The undersigned hereby grants to the attorneys of

RANKIN, HILL & CLARK LLP

and American Honda Motor Co., Inc. 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, including  
but not limited to the application number and filing date, if not already provided in this  
document.)

WHEREAS, The Assignee, Honda Motor Co., Ltd., having a principal place of business at

1-1, Minami-Aoyama 2-Chome, Minato-ku, Tokyo, 107-8556, Japan

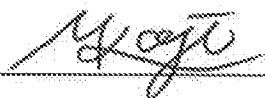
desires to secure the entire right, title, and interest, throughout the world, in, to, and under said invention and the patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said invention 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 invention 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 invention, 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, including the right to claim the benefits of the International Convention for such applications.

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.

Inventor 1 Name:

Koji MORIYAMA

Inventor's signature:  Date: 2/3/2023

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.

Inventor 2 Name:

Richard Y. ASATO

Inventor's signature:



Date:

2/3/23

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.

Inventor 3 Name:

Ryosuke SHIBATA

Inventor's signature: 柴田 良輔 Date: 3/20/2023

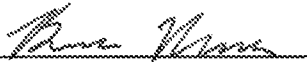
ASSIGNMENT HRA-53648

**PATENT**  
**REEL: 063071 FRAME: 0922**

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.

Inventor 4 Name:

Brian MORAN

Inventor's signature:  Date: 2/23/2023

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.

Inventor 5 Name:

Xiaojian YANG

Inventor's signature:

Xiaojian Yang

Date:

02/09/2023

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PATENT

RECORDED: 03/23/2023

REEL: 063071 FRAME: 0924