

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
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<b>Postal Code:</b>	107-8556
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16817033
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<b>ATTORNEY DOCKET NUMBER:</b>	HRA-46331.01
<b>NAME OF SUBMITTER:</b>	JACK D. GAU
<b>SIGNATURE:</b>	/Jack D. Gau/
<b>DATE SIGNED:</b>	03/12/2020
<b>Total Attachments: 4</b>	
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WHEN RECORDED RETURN TO:  
RANKIN, HILL & CLARK LLP

PATENT APPLICATION  
Docket No.: HRA-46331.01

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A S S I G N M E N T

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

PHYSICAL HUMAN-ROBOT INTERACTION (pHRI)

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 Honda Patents & Technologies North America, LLC 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.)

ASSIGNMENT HRA-46331.01

**PATENT**  
**REEL: 052099 FRAME: 0959**

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.

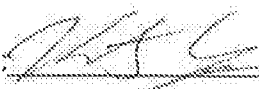
NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said invention and all patents, patent applications, patent rights, and inventor's 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:

Katsu Yamane

Inventor's signature:



Date:

March 10, 2020

ASSIGNMENT HRA-46331.01

**PATENT**  
**REEL: 052099 FRAME: 0961**

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

Inventor 2 Name:

Joseph A. Campbell

Inventor's signature:  Date: 03/10/2020

ASSIGNMENT HRA-46331.01

PATENT

RECORDED: 03/12/2020

REEL: 052099 FRAME: 0962