505471293 05/10/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHIEN-YI WANG	05/02/2019
ATHMANARAYANAN LAKSHMI NARAYANAN	05/01/2019
YI-TING CHEN	05/01/2019

RECEIVING PARTY DATA

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State/Country:	JAPAN	
Postal Code:	107-8556	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16326141

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NAME OF SUBMITTER:	CHARNELLE SAVOY	
SIGNATURE:	/CHARNELLE SAVOY/	
DATE SIGNED:	05/10/2019	

Total Attachments: 2

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PATENT 505471293 REEL: 049145 FRAME: 0032

Docket No. 037110.01042/H1170762US02

WORLDWIDE ASSIGNMENT

NOW THEREFORE, be it known that for and in good and valuable consideration, the receipt of which is hereby acknowledged by the undersigned inventor(s) (hereinafter ASSIGNOR) from

(insert ASSIGNEE's Name(s) Address(es))

HONDA MOTOR CO., LTD.

1-1 Minami-Aoyama 2-Chome, Minato-ku

Tokyo, Japan 107-8556

(hereinafter ASSIGNEE), the undersigned ASSIGNOR agrees to sell, assign and transfer, and hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the right to sue for past infringement, if any, and all rights pursuant to 35 U.S.C. §154, to the invention entitled

(Title of Invention)

JOINT 3D OBJECT DETECTION AND ORIENTATION ESTIMATION VIA MULTIMODAL
FUSION

["If the assignment is being filed after the filing of the application, this section must be completed] for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

filed on

February 15, 2019

Serial No.

16/326,141

(Arent Fox LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and any continuation, continuation-in-part, division, renewal, substitute, reissue or reexamination thereof, and any other application claiming priority thereto, and all Letters Patent of the United States and in all foreign countries to be obtained therefor for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s):has (have) affixed his/her/their signature(s).

[Signature(s) of Assignor(s)]

NATURE)

Athmanarayanan LAKSHMI NARAYANAN (TYDESSINAN

Chien-YI WANG

(TYPE NAME)

(TYPE NAME) YI-Ting CHEN

(DATE)

(DATE)

(SIGNATURE)

(SIGNATURE)

(TYPE NAME)

(DATE)

PATENT

REEL: 049145 FRAME: 0033

WORLDWIDE ASSIGNMENT

NOW THEREFORE, be it known that for and in good and valuable consideration, the receipt of which is hereby acknowledged by the undersigned inventor(s) (hereinafter ASSIGNOR) from [Insert HONDA MOTOR CO., LTD. ASSIGNEE's 1-1 Minami-Aoyama 2-Chome, Minato-ku Name(s) Address(es)] Tokyo, Japan 107-8556 (hereinafter ASSIGNEE), the undersigned ASSIGNOR agrees to sell, assign and transfer, and hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the right to sue for past infringement, if any, and all rights pursuant to 35 U.S.C. §154, to the invention entitled [Title of JOINT 3D OBJECT DETECTION AND ORIENTATION ESTIMATION VIA MULTIMODAL Invention] **FUSION** for which application for Letters Patent of the United States was executed on even date herewith [*If the assignment unless otherwise indicated below: is being filed after the filing of the application, this filed on February 15, 2019 Serial No. section must be completed) (Arent Fox LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known) and any continuation, continuation-in-part, division, renewal, substitute, reissue or reexamination thereof, and any other application claiming priority thereto, and all Letters Patent of the United States and in all foreign countries to be obtained therefor for the full term or terms for which the same may be granted. The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient. The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding. IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s). (Signature(s) Chien-Yi WANG of Assignor(s)] (SIGNATURE) (TYPE NAME) (DATE) Athmanarayanan LAKSHMI NARAYANAN (TYPE NAME) Yi-Ting CHEN (SIGNATURE)

> PATENT REEL: 049145 FRAME: 0034

RECORDED: 05/10/2019