PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
|-----------------------|----------------|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT | |

CONVEYING PARTY DATA

| Name | Execution Date | |
|--------------------|----------------|--|
| TOSHIHIRO NAKAMURA | 10/15/2019 | |

RECEIVING PARTY DATA

| Name: | TOYOTA JIDOSHA KABUSHIKI KAISHA | |
|-----------------|---------------------------------|--|
| Street Address: | 1, TOYOTA-CHO, | |
| City: | ty: TOYOTA-SHI, AICHI-KEN | |
| State/Country: | JAPAN | |
| Postal Code: | 471-8571 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16726069 |

CORRESPONDENCE DATA

Fax Number: (703)518-5499

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: 7036841111

Email: bjhgroup@ipfirm.com
Correspondent Name: HAUPTMAN HAM, LLP

Address Line 1: 2318 MILL ROAD Address Line 2: SUITE 1400

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 6061-043T | |
|-------------------------|------------------------|--|
| NAME OF SUBMITTER: | BENJAMIN J. HAUPTMAN | |
| SIGNATURE: | /Benjamin J. Hauptman/ | |
| DATE SIGNED: | 12/23/2019 | |

Total Attachments: 2

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PATENT 505836039 REEL: 051415 FRAME: 0306

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention

this assignment and sale.

CONTROL DEVICE OF INTERNAL COMBUSTION ENGINE, IN-VEHICLE
ELECTRONIC CONTROL UNIT, MACHINE LEARNING SYSTEM, CONTROL
METHOD OF INTERNAL COMBUSTION ENGINE, MANUFACTURING METHOD OF
ELECTRONIC CONTROL UNIT, AND OUTPUT PARAMETER CALCULATION
DEVICE

| ELECTRONIC CONTROL UNIT, AND OUTPUT PARAMETER CALCULATION DEVICE | | | | |
|---|--|--|--|--|
| As the below named inventor, I hereby declare that: | | | | |
| This declaration is directed to: | | | | |
| United States application or PCT international application number filed on | | | | |
| 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 have reviewed and understand the contents of the application for which this assignment with declaration is being submitted. | | | | |
| I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56. | | | | |
| 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. | | | | |
| WHEREAS, TOYOTA JIDOSHA KABUSHIKI KAISHA 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan | | | | |
| (hereinafter referred to as ASSIGNEE), is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries; | | | | |
| NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filling of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto; | | | | |
| And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto: | | | | |
| And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any renewal or reissues of any Letters Patent which may be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense; | | | | |
| And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto; | | | | |
| | | | | |

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with

PATENT REEL: 051415 FRAME: 0307

| NAME OF SOLE OR FIRST INVENTOR: | | | | |
|---|------------------------|---------------------------------|--------------------|--|
| Given Name | | | | |
| (first and middle [if any]) | Toshihiro | Family Name or Surname NAKAMURA | ****************** | |
| Inventor's signature Toshihi to A | lakamurg | Date Other 15, 20, | 19 | |
| Residence: Sunto-gun, Shizuoka-ken, Japan | | | | |
| c/o TOYOTA JIDO | OSHA KABUSHIKI | KAISHA | 100 | |
| Mailing Address: 1, Toyota-cho, Toy | rota-shi, Aichi-ken, 4 | 171-8571 Japan | | |

PATENT REEL: 051415 FRAME: 0308

RECORDED: 12/23/2019