PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5663487

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the LISTING OF THE SECOND INVENTOR'S FIRST NAME previously recorded on Reel 049908 Frame 0057. Assignor(s) hereby confirms the ASSIGNMENT. |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| Yoshikazu YAMAMOTO | 06/26/2019 |
| KAZUYA OHSHIMA | 06/26/2019 |
| Masaya KUBO | 06/26/2019 |
| Yuichiroh YAMANAKA | 06/26/2019 |

RECEIVING PARTY DATA

| Name: | TOYOTA JIDOSHA KABUSHIKI KAISHA |
|-----------------|---------------------------------|
| Street Address: | 1, Toyota-cho |
| City: | Toyota-shi, Aichi-ken |
| State/Country: | JAPAN |
| Postal Code: | 471-8571 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16526631 |

CORRESPONDENCE DATA

Fax Number: (703)836-2787

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: 703-836-6400 Email: email@oliff.com **Correspondent Name:** JAMES A. OLIFF Address Line 1: **OLIFF PLC**

Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER: 187926 NAME OF SUBMITTER: **CHARLES PACE** SIGNATURE: /Charles Pace/ **DATE SIGNED:** 08/12/2019

Total Attachments: 3

PATENT REEL: 050023 FRAME: 0531

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> PATENT REEL: 050023 FRAME: 0532

ASSIGNMENT OF APPLICATION

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned inventor(s) hereby:

1) Sell(s), assign(s) and transfer(s) to

TOYOTA JIDOSHA KABUSHIKI KAISHA

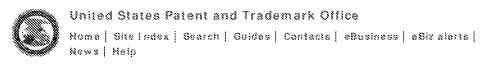
(hereinafter referred to as "ASSIGNEE"), which has a business office at

1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571 Japan,

the entire right, title, and interest in any and all inventions and improvements disclosed in, application(s) based upon, and Patent(s) granted upon the information which is disclosed in the application entitled:

| CONTROLLER AND CONTROL METHOD FOR INTERNAL COMBUSTION ENGINE |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| for which I(we) have executed an application for a United States Letters Patent on $\underline{ }$. (Application Serial No) |
| 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application, or any division, continuation, substitute or reissue thereof, to the ASSIGNEE. |
| 3) Agree to execute all papers and documents and perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof and/or the enforcement of patents resulting from such applications. |
| Signed on the date(s) indicated beside my(our) signature(s). |
| 1) Yoshikazu Yamamoto Name: Yoshikazu YAMAMOTO Date: June 26, 2019 |
| 2) Karuna Ohahima Date: June 26, 2019 Name: Karuna OHSHIMA |
| 3) Masaya Kubo Date: June 26, 2019 Name: Masaya KUBO |
| 4) Ywiching Yamanaka Date: June 26. 20[9] Name: Yuichinoh YAMANAKA |
| Witness: Takiji Mateubara Date: June 26.2019 |

PATENT REEL: 050023 FRAME: 0533





Electronic Patent Assignment System

Confirmation Receipt

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

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

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Fax Number: (703)836-2787 Phone: 703-836-6400

Email: email@oliff.com 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. Correspondent Name: JAMES A. OLIFF OLIFF PLC Address Line 1: Address Line 2: P.O. BOX 320850 Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850 ATTORNEY DOCKET 187926 NUMBER: NAME OF SUBMITTER: CHARLES PACE Signature: /Charles Pace/ 07/30/2019 Date: Total Attachments: 1 source=6782420_1#page1.tif RECEIPT INFORMATION EPAS ID: PAT5644095 Receipt Date: 07/30/2019

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