

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4680367

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|---|---------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| TAKAHITO ENDO | 09/25/2017 |
| YASUHIRO OSHIUMI | 09/25/2017 |
| KENSEI HATA | 09/25/2017 |
| YASUYUKI KATO | 10/03/2017 |
| YUSHI SEKI | 09/27/2017 |
| KATSUYA IWAZAKI | 09/27/2017 |
| HIDEAKI KOMADA | 09/25/2017 |
| 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: | 15807206 |
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| NAME OF SUBMITTER: | MICHELLE HUMPHREYS |
| SIGNATURE: | /Michelle Humphreys/ |
| DATE SIGNED: | 11/08/2017 |

PATENT

Total Attachments: 5

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ASSIGNMENT

WHEREAS, I/WE,

Takahito ENDO,
c/o TOYOTA JIDOSHA KABUSHIKI KAISHA
1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571, JAPAN

Yasuhiro OSHIUMI,
c/o TOYOTA JIDOSHA KABUSHIKI KAISHA
1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571, JAPAN

Kensei HATA,
c/o TOYOTA JIDOSHA KABUSHIKI KAISHA
1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571, JAPAN

Yasuyuki KATO,
c/o TOYOTA JIDOSHA KABUSHIKI KAISHA
1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571, JAPAN

Yushi SEKI,
c/o TOYOTA JIDOSHA KABUSHIKI KAISHA
1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571, JAPAN

Katsuya IWAZAKI,
c/o TOYOTA JIDOSHA KABUSHIKI KAISHA
1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571, JAPAN

and

Hideaki KOMADA,
c/o TOYOTA JIDOSHA KABUSHIKI KAISHA
1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571, JAPAN

have made one or more new and useful inventions and/or discoveries as described and/or claimed in a United States non-provisional patent application entitled **VEHICLE CONTROL SYSTEM**, filed as application number 15/807,206 on November 8, 2017 (hereinafter referred to as "the Application");¹

¹ In the event the Application is not identified in the spaces above by application number and filing date, I hereby authorize and request Andrews Kurth Kenyon LLP to insert the application number and filing date of the Application in the spaces above when known.

WHEREAS, **TOYOTA JIDOSHA KABUSHIKI KAISHA**, a company organized under the laws of **JAPAN**, with a place of business at **1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571, JAPAN** (hereinafter referred to as "the Assignee"), is desirous of acquiring the title, rights, interests, benefits and privileges herein recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to me/us, the receipt and sufficiency of which is hereby acknowledged, I/we hereby, without reservations:

1. Assign, transfer, and convey to Assignee the entire right, title, and interest in and to the Application, any and all inventions and discoveries therein described and/or claimed, and any and all Letters Patent that may be issued upon the Application, or for the inventions or discoveries therein contained, or upon any application based upon or claiming priority to the Application, in any and all countries, including all non-provisional, divisional, continuation, renewal, substitute, reissue, reexamination, international (including under the Patent Cooperation Treaty) and Convention applications, and any and all reissues and extensions of Letters Patent granted based upon the Application, for said inventions and discoveries, or upon any application based upon or claiming priority to the Application, and every priority right that is or may be predicated upon or arise from the Application, said inventions and discoveries, or any application based upon or claiming priority to the Application.

2. Authorize Assignee to file patent applications in any or all countries for any or all of said inventions and discoveries in my/our name(s) or in the name of Assignee or otherwise as Assignee may deem advisable.

3. Authorize and request the Commissioner for Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.

4. Warrant that I/we have not knowingly conveyed to others any right, title or interest in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; that I/we have good right to assign the same to Assignee without encumbrance; and that I/we are aware of no claim to the contrary.

5. Bind my/our heirs, legal representatives, and assigns, as well as myself/ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me/us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me/us, my/our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me/us relating to said inventions and discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in my/our control or in the control of

my/our heirs, legal representatives, or assigns which may be useful for establishing the facts of my/our conceptions, disclosures, and reduction to practice of said inventions and discoveries; and to testify, upon Assignee's request, to the same in any interference, arbitration, litigation or other proceeding pertaining to the said inventions and discoveries, the said patent applications, and/or the said Letters Patent.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 25th
day of September, 2017

Takahito Endo
Takahito ENDO

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 25th
day of September, 2017

Yasuhiro Oshiumi
Yasuhiro OSHIUMI

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 25th
day of September, 2017

Kensei Hata
Kensei HATA

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 3rd
day of October, 2017

Yasuyuki Kato
Yasuyuki KATO

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 27th
day of September, 2017

Yushi Seki
Yushi SEKI

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 27th
day of September, 2017

Katsuya Iwazaki
Katsuya IWAZAKI

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 25th
day of September, 2017

Hideaki Komada
Hideaki KOMADA