504594822 10/16/2017

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | | NEW ASSIGNMENT | | |
|--|--|---|---------------------------------------|---------------------------|
| NATURE OF CONVEYANCE: | | ASSIGNMENT | | |
| CONVEYING PARTY | DATA | | | |
| | | Name | | Execution Date |
| TOYOTA MOTOR EN | GINEERING | MANUFACTURING NORTH | AMERICA, INC. | 10/09/2017 |
| RECEIVING PARTY D | ΑΤΑ | | | |
| Name: | ΤΟΥΟΤΑ | TOYOTA JIDOSHA KABUSHIKI KAISHA | | |
| Street Address: | 1, TOYO | 1, TOYOTA-CHO | | |
| Internal Address: | ΤΟΥΟΤΑ | TOYOTA-SHI | | |
| City: | AICHI-KI | AICHI-KEN | | |
| State/Country: | JAPAN | JAPAN | | |
| Postal Code: | 471-857 | 471-8571 | | |
| Property TypeApplication Number:145° | | Number | | |
| Application Number: | 1 | 519760 | | |
| CORRESPONDENCE | DATA | | | |
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| | • | 3)413-2220 | | |
| Correspondence will | be sent to | e e-mail address first; if that | t is unsuccessful be sent via US M | , it will be sent ail. |
| Correspondence will using a fax number, | be sent to i if provided; | , | t is unsuccessful be sent via US M | , it will be sent ail. |
| <i>Correspondence will using a fax number, a</i> Phone: Email: | be sent to a if provided; (7 C | e e-mail address first; if that that is unsuccessful, it will 3) 413-3000 passignments@oblon.com | t is unsuccessful be sent via US M | , it will be sent ail. |
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| Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 2 | be sent to a if provided; (7 c) c) c) c) c) c) c) c) c) c) c) c) c) | e e-mail address first; if that that is unsuccessful, it will 3) 413-3000 passignments@oblon.com LON, ET AL. 0 DUKE STREET EXANDRIA, VIRGINIA 22314 438694US JENNA HORN /Jenna Horn/ 10/16/2017 | t is unsuccessful be sent via US M | , it will be sent ail. |
| Correspondence will using a fax number, Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET JAME OF SUBMITTER BIGNATURE: DATE SIGNED: | be sent to a if provided; (7 c) c) c) c) c) c) NUMBER: c) Assn#page | e e-mail address first; if that that is unsuccessful, it will 3) 413-3000 passignments@oblon.com LON, ET AL. 0 DUKE STREET EXANDRIA, VIRGINIA 22314 438694US JENNA HORN /Jenna Horn/ 10/16/2017 | is unsuccessful be sent via US M | , it will be sent ail. |

ASSIGNMENT

WHEREAS, Toyota Motor Engineering & Manufacturing North America, Inc., a Kentucky corporation, having a place of business at 25 Atlantic Avenue, Erlanger, Kentucky 41018, is joint owner with The Regents of the University of Michigan, by assignment, of the application for letters patent Application No. 14/519,760, filed October 21, 2014; and which issued as Letters Patent of the United States of America No. 9,765,621, on September 19, 2017; and

WHEREAS, Toyota Jidosha Kabushiki Kaisha having a place of business at 1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571, Japan, a corporation organized and existing under the laws of the Country of Japan (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to said Letters Patent;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00) and other valuable consideration, the receipt of which is hereby acknowledged, Toyota Motor Engineering & Manufacturing North America, Inc. by these presents do sell, assign, and transfer unto ASSIGNEE the entire right, title and interest for the territory of the United States of America, in and to the aforesaid Letters Patent and the invention described therein, and any reissue or reissues of said Letters Patent to the full end of the term for which said Letters Patent have been granted or reissues may be granted, said invention and Letters Patent to be held and enjoyed by the ASSIGNEE for the use and behoof of said ASSIGNEE, and for the use and behoof of their successors, assigns or other legal representatives, and for claims for damage by reasons of infringement past and present, as fully and entirely as the same would have been held by Toyota Motor

PATENT REEL: 043870 FRAME: 0265

Engineering & Manufacturing North America, Inc. had this Assignment and sale not been made.

IN TESTIMONY WHEREOF, Toyota Motor Engineering & Manufacturing North America, Inc. has caused these presents to be signed by its officer thereunto duly authorized.

Date: 12/9/2017

TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.

Name: Frederick W. Mau, II Title: Intellectual Property Counsel

RECORDED: 10/16/2017