

PATENT ASSIGNMENT COVER SHEET

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| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC. | 03/14/2017 |
| RECEIVING PARTY DATA | | |
| Name: | TOYOTA JIDOSHA KABUSHIKI KAISHA | |
| Street Address: | 1, TOYOTA-CHO | |
| Internal Address: | TOYOTA-SHI | |
| City: | AICHI-KEN | |
| State/Country: | JAPAN | |
| Postal Code: | 471-8571 | |
| PROPERTY NUMBERS Total: 1 | | |
| | Property Type | Number |
| | Patent Number: | 9580078 |
| CORRESPONDENCE DATA | | |
| Fax Number: | (513)977-8141 | |
| <i>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.</i> | | |
| Phone: | 513-977-8200 | |
| Email: | sally.michel@dinsmore.com | |
| Correspondent Name: | DINSMORE & SHOHL LLP | |
| Address Line 1: | 255 E. 5TH STREET | |
| Address Line 2: | SUITE 1900 | |
| Address Line 4: | CINCINNATI, OHIO 45202 | |
| ATTORNEY DOCKET NUMBER: | 22562-1126 | |
| NAME OF SUBMITTER: | NICOLE SIGURDSON | |
| SIGNATURE: | /Nicole Sigurdson/ | |
| DATE SIGNED: | 03/16/2017 | |
| Total Attachments: 1 | | |
| source=IP-A-1513 Executed Assignment to TJKK#page1.tif | | |

ASSIGNMENT

WHEREAS, **Toyota Motor Engineering & Manufacturing North America, Inc.** a corporation of the State of Kentucky, with a place of business at 25 Atlantic Avenue, Erlanger, KY 41018 (hereinafter referred to as "Assignor"), is an owner having rights, title and interest (hereinafter referred to as "Assignor's ownership interest") in and to the following United States Letters Patent No. 9,580,078 entitled **Systems And Methods For Preheating Hybrid Vehicles** (hereinafter referred to as "Letters Patent").

WHEREAS, **Toyota Jidosha Kabushiki Kaisha**, a business of Japan, with a place of business at 1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571, Japan (hereinafter referred to as "Assignee") is desirous of acquiring Assignor's ownership interest in and to the Letters Patent, and the inventions therein described.

NOW, THEREFORE, for good and valuable consideration, receipt whereof is hereby acknowledged, Assignor hereby sells, assigns and transfers unto said Assignee, its successors and assigns, Assignor's ownership interest in and to the Letters Patent, and the inventions therein disclosed, and any improvements thereon, the same to be held and enjoyed by the said Assignee for its own use and benefit, and for the use and benefit of its successors, assigns or other legal representatives to the full end of the term for which the Letters Patent has been granted or may be granted, as fully and entirely as the same would have been held and enjoyed by said Assignor, if this assignment and sale had not been made; together with all claims for damages by reason of past infringement of the Letters Patent, with the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns and other legal representatives.

**Toyota Motor Engineering &
Manufacturing North America, Inc.**

Date: 3/4/2017

Name: 

Frederick W. Mau, II

Title: Intellectual Property Counsel

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