

<b>PATENT ASSIGNMENT COVER SHEET</b>
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.	11/08/2019
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	10451025
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<b>DATE SIGNED:</b>	11/12/2019
<b>Total Attachments: 1</b>	
source=2017-568_IP-A-2729_Assignment_31EV-265472#page1.tif	

ASSIGNMENT OF PATENT

WHEREAS, **Toyota Motor Engineering & Manufacturing North America, Inc.** of 6565 Headquarters Drive W1-3C, Plano, Texas 75024 (hereinafter referred to as "ASSIGNOR"), has obtained U.S. Patent No. 10,451,025, dated October 22, 2019 entitled **SYSTEMS AND METHODS FOR LEARNED DIESEL ENGINE START OPERATION**.

WHEREAS, Toyota Motor Engineering & Manufacturing North America, Inc. desires to transfer ownership of above patent; and

WHEREAS, **Toyota Jidosha Kabushiki Kaisha**, a corporation organized under the laws of the Japan, having its principal place of business at 1, Toyota-cho, Toyota-shi, Aichi-ken, 471- 8571 Japan, ("ASSIGNEE"), desires to acquire the entire right, title, and interest in the aforesaid patent owned by Assignor;

Now therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the ASSIGNOR's entire right, title and interest in and to the aforesaid Patent; such right, title and interest to be held and enjoyed by the ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY GRANTS to the law firm of Sheppard, Mullin, Richter & Hampton LLP the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

**Execution Date:** November 8, 2019

TOYOTA MOTOR ENGINEERING &  
MANUFACTURING NORTH AMERICA, INC.

By 

Print Name: Frederick W. Mau, II

Its: Intellectual Property Counsel