

## PATENT ASSIGNMENT COVER SHEET

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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.	06/26/2018
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	10020590
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<b>SIGNATURE:</b>	/Ketan S. Vakil/
<b>DATE SIGNED:</b>	07/11/2018
<b>Total Attachments: 1</b>	
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**ASSIGNMENT**

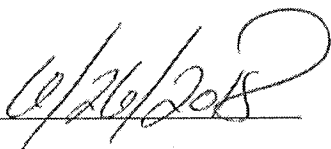
**WHEREAS, Toyota Motor Engineering & Manufacturing North America, Inc.**, a Corporation organized and pursuant to the laws of Kentucky, having its principal place of business at 6565 Headquarters Drive W1-3C, Plano, Texas 75024 (hereinafter referred to as Assignor), is the sole and exclusive owner, by assignment, of the Letters Patent listed in Schedule A; and

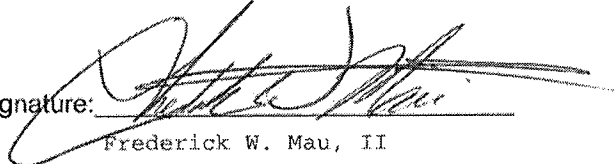
**WHEREAS, Toyota Jidosha Kabushiki Kaisha**, a Corporation organized under and pursuant to the laws of Japan, having its principal place of business at 1 Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title, and interest in, to and under said Letters Patent and the invention covered thereby;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the said Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer, and set over to the said Assignee, the entire right, title, and interest for the United States of America and all other countries in and to said Letters Patent listed on *Schedule A*. The same to be held and enjoyed by the same Assignee, for its own use and enjoyment of its successors, assigns, and other legal representatives, to the end of the term or terms for which Letters Patent of the United States and all other countries listed on the attached *Schedule A* are granted or reissued or reexamined as fully and entirely as the same would have been held and enjoyed by the said Assignor, if this assignment and sale had not been made, together with all claims for damages by reason of past infringement of Letters Patent listed on *Schedule A*, with the right to sue for, and collect the same for its own use and behoof, and for the use and behoof of its successors, assigns, or other legal representatives.

**SCHEDULE A**

Patent Number	Date of Patent	Inventors	Title	Country
10,020,590	July 10, 2018	Paul D. Schmalenberg Meijiao Li Jae Seung Lee	Grid Bracket Structure for MM-Wave End-Fire Antenna Array	USA

Date: 

Signature:   
Frederick W. Mau, II