

## 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>
SHAILESH N. JOSHI	09/08/2015
MASAO NOGUCHI	09/08/2015
ERCAN MEHMET DEDE	09/08/2015
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<b>Name:</b>	TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.
<b>Street Address:</b>	25 ATANTIC AVENUE
<b>City:</b>	ERLANGER
<b>State/Country:</b>	KENTUCKY
<b>Postal Code:</b>	41018
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14862564
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<b>ATTORNEY DOCKET NUMBER:</b>	22562-1502
<b>NAME OF SUBMITTER:</b>	CORY J. INGLE
<b>SIGNATURE:</b>	/Cory J. Ingle/
<b>DATE SIGNED:</b>	09/23/2015
<b>Total Attachments: 2</b>	
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source=assignment#page2.tif	

## ASSIGNMENT

WHEREAS, we, **Shailesh N. Joshi** of 2035 Churchill Drive, Ann Arbor, MI 48103, **Masao Noguchi** of 3022 Signature Blvd., Apt. No. L, Ann Arbor, MI 48103; and **Ercan Mehmet Dede**, of 2227 Placid Way, Ann Arbor, MI 48105 hereinafter the *ASSIGNOR(S)*, invented certain new and useful **SYSTEMS OF BONDED SUBSTRATES AND METHODS FOR BONDING SUBSTRATES**, for which we executed an application for a United States Patent and for which said application for United States Patent was filed on September 23, 2015, under

☒ Patent Application Serial No. 14/862,564

☒ Attorney Docket No. 2015-078 / 22562-1502;

WHEREAS, the *ASSIGNOR(S)* hereby authorize(s) and request(s) the attorney(s) and/or agent(s) empowered to act on behalf of **Toyota Motor Engineering & Manufacturing North America, Inc.** in the aforementioned application, to insert above the filing date and application number of said application, when known;

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 called the *ASSIGNEE*, is desirous of acquiring the entire right, title and interest in and to said application and the inventions therein disclosed and any Letters Patent that may issue thereon;

AND, WHEREAS, it is the intent of the *ASSIGNOR(S)* to assign all rights to the above referenced application to the *ASSIGNEE*, including, but not limited to, all substantive rights in the above-referenced application as well as the right to claim priority, the right to be granted a patent in any and all countries and Regional Patent Offices, including, without limitation, the PCT Contracting States;

NOW, THEREFORE, for good and valuable consideration, receipt whereof is hereby acknowledged, *ASSIGNOR(S)* hereby sell, assign and transfer unto said *ASSIGNEE*, its successors and assigns, the entire right, title and interest, including the right to claim priority in and to said application, the inventions therein disclosed, and any improvements thereon, and in any and all Letters Patent that may be granted therefor in the United States and its territorial possessions and in any and all countries and Regional Patent Offices, including, without limitation, the PCT Contracting States, and in and to any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof;

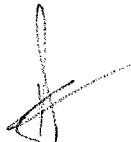
*ASSIGNOR(S)* hereby authorize and request the Patent Office Officials in the United States and its territorial possessions, and in any and all countries and Regional Patent Offices, including, without limitation, the PCT Contracting States, to issue, when granted, any Letters Patent thereon, and any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof, to said *ASSIGNEE*, its successors and assigns, as the assignee of the entire right title and interest in and to the same, for the sole use and behalf of

the *ASSIGNEE* and the *ASSIGNEE's* successors and assigns, to the full end of the term for which the Letters Patent may be granted, including the term of any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof, as fully and entirely as the same would have been held by the *ASSIGNOR(S)* had this assignment not been made;

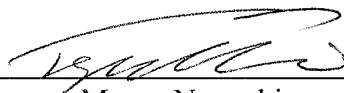
*ASSIGNOR(S)* hereby authorize said *ASSIGNEE*, its successors and assigns, to file in its own name applications for patent in foreign countries in connection with the inventions hereby transferred, under the International Convention claiming the priority of said United States application or otherwise, and to secure in its own name the Letters Patent issued thereon, including any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof; and

*ASSIGNOR(S)* hereby agree that, upon request, *ASSIGNOR(S)* will sign all papers, and make all rightful oaths, and do all acts which said *ASSIGNEE*, its successors or assigns, may consider necessary in connection with said United States application, and in connection with any other United States application or foreign applications that may be filed in connection with said inventions, and with any improvements thereon, and in connection with any Letters Patent issued thereon, including any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof.

ASSIGNORS:

By:   
Shailesh N. Joshi

Date: 9/8/15

By:   
Masao Noguchi

Date: 9/8/2015

By:   
Ercan Mehmet Dede

Date: 9/8/2015