

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4545596

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	YUICHI SHIMIZU	08/02/2017
	LISA DIMAGGIO	08/02/2017
	MIKHAL EL ARCULLI	08/07/2017
RECEIVING PARTY DATA		
Name:	TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.	
Street Address:	25 ATLANTIC AVENUE	
City:	ERLANGER	
State/Country:	KENTUCKY	
Postal Code:	41018	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	15674341	
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:	5139778200	
Email:	emmylou.redmond@dinsmore.com	
Correspondent Name:	DINSMORE & SHOHL LLP	
Address Line 1:	255 EAST FIFTH STREET	
Address Line 2:	SUITE 1900	
Address Line 4:	CINCINNATI, OHIO 45202	
ATTORNEY DOCKET NUMBER:	22562-2418 / 2017-236	
NAME OF SUBMITTER:	YONGSOK CHOI	
SIGNATURE:	/ Yongsok Choi /	
DATE SIGNED:	08/10/2017	
Total Attachments: 2		
source=22562-2418_exec_Assign#page1.tif		
source=22562-2418_exec_Assign#page2.tif		

ASSIGNMENT

WHEREAS, we, **Yuichi Shimizu**, of 2399 Marquis Ct, Ann Arbor, MI 48103, **Lisa DiMaggio**, of 545 Second Street, Ann Arbor, MI 48013, and **Mikhal el Arculli**, of 917 Allbright Rd, Celina, TX 75009, hereinafter the *ASSIGNOR(S)*, invented certain new and useful **SYSTEMS, VEHICLES, AND METHODS FOR CONTROLLING TRAILER BRAKE OUTPUT CIRCUITS WITH A REDUCED UPPER LIMIT OF TRAILER BRAKE OUTPUT SIGNALS** for which we executed an application for a United States Patent and for which said application for United States Patent was filed on August 10, 2017, under

☒ Patent Application Serial No. 15/674,341

☒ Attorney Docket No. 22562-2418 / 2017-236;

WHEREAS, the *ASSIGNOR(S)* hereby authorize(s) and request(s) the attorney(s) and/or agent(s) empowered to act on **Toyota Motor Engineering & Manufacturing North America, Inc.'s** behalf 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;

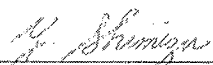
ASSIGNOR(S) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions, and in any and all countries and Regional Patent Offices, including, without limitation, the PCT Contracting States, to issue, when granted, any Letters Patent thereon, and any and 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;

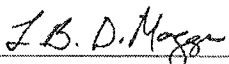
ASSIGNOR(S) hereby authorize said *ASSIGNEE*, its successors and assigns, to file in its own name applications for patent in foreign countries in connection with the inventions hereby transferred, under the International Convention claiming the priority of said United States application or otherwise, 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.

ASSIGNOR(S):

By: 
Yuichi Shimizu

Date: 8/2/2017

By: 
Lisa DiMaggio

Date: 8/2/2017

By: 
Mikhal el Arculli

Date: Aug 7, 2017

11562888v1