502907664 07/25/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT2954261

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PAUL D. SCHMALENBERG	07/23/2014
ERCAN M. DEDE	07/23/2014
TSUYOSHI NOMURA	07/23/2014

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:	14340886

CORRESPONDENCE DATA

Fax Number: (513)977-8141

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.

Phone: 513-977-8200

Email: cathy.vigil@dinsmore.com

Correspondent Name: NICHOLAUS RERICHA/DINSMORE & SHOHL LLP

Address Line 1: 255 EAST FIFTH STREET, SUITE 1900

Address Line 4: CINCINNATI, OHIO 45202

ATTORNEY DOCKET NUMBER:	22562-965
NAME OF SUBMITTER:	NICHOLAUS R. RERICHA
SIGNATURE:	/Nicholaus R. Rericha/
DATE SIGNED:	07/25/2014

Total Attachments: 2

source=Assignment#page1.tif source=Assignment#page2.tif

PATENT 502907664 REEL: 033392 FRAME: 0386

ASSIGNMENT

WHEREAS, we, Paul D. Schmalenberg, of 2421 Lancashire Drive, Ann Arbor, MI 48105, Ercan M. Dede, of 2227 Placid Way, Ann Arbor, MI 48105, and Tsuyoshi Nomura, of 1571 Abigail Way, Ann Arbor, MI 48013, hereinafter the ASSIGNORS, invented certain new and useful CIRCUIT BOARDS WITH THERMAL CONTROL AND METHODS FOR THEIR DESIGN for which we executed an application for a United States Patent and for which said application for United States Patent was filed on, under
☐ Patent Application Serial No.
[Z] Attorney Docket No. <u>22562-965 / 2013-183</u> ;
WHEREAS, the ASSIGNORS hereby authorize and request the attorneys and/or agents 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 ASSIGNORS 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, ASSIGNORS 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;

ASSIGNORS 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 ASSIGNORS had this assignment not been made;

PATENT REEL: 033392 FRAME: 0387 ASSIGNORS 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

ASSIGNORS' hereby agree that, upon request, ASSIGNORS 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:

By Paul D. Schmalenberg

Date: 7.23.2014

By Fin Tale

Date: 7 · 23 · 2014

助的水光。

nate: 7, 23, 2014

Tsuvaski Nomura

PATENT REEL: 033392 FRAME: 0388