505655870 09/05/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.	08/28/2019

RECEIVING PARTY DATA

Name:	TOYOTA JIDOSHA KABUSHIKI KAISHA
Street Address:	1, TOYOTA-CHO
Internal Address:	TOYOTA-SHI
City:	AICHI-KEN
State/Country:	JAPAN
Postal Code:	471-8571

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	10385469

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 8600

Email:gina.smith@dinsmore.comCorrespondent Name:DINSMORE & SHOHL LLPAddress Line 1:255 EAST FIFTH STREET

Address Line 2: SUITE 1900

Address Line 4: CINCINNATI, OHIO 45202

ATTORNEY DOCKET NUMBER:	22562-2371
NAME OF SUBMITTER:	RITU SINGH
SIGNATURE:	/Ritu Singh/
DATE SIGNED:	09/05/2019

Total Attachments: 1

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PATENT REEL: 050278 FRAME: 0616

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<u>ASSIGNMENT</u>

WHEREAS, Toyota Motor Engineering & Manufacturing North America, Inc. a

corporation of the State of Kentucky, with a place of business at 6565 Headquarters Drive W1-

3C, Plano, Texas 75024 (hereinafter referred to as Assignor), is the sole owner of the entire right.

title and interest in and to the following United States Letters Patent No. 10,385,469 entitled

Turnable Copper Inverse Opal Structure for High Temperature Bonding (hereinafter referred

to as "Letters Patent").

WHEREAS, Toyota Jidosha Kabushiki Kaisha, a business of Japan, with a place of

business at 1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571, Japan (hereinafter referred to as

Assignce) is desirous of acquiring the entire right, title and interest in and to the aforesaid Letters

Patent, and the inventions therein described:

NOW, THEREFORE, for good and valuable consideration, receipt whereof is hereby

acknowledged, Assignor hereby sells, assigns and transfers unto said Assignee, its successors

and assigns, the entire right, title and interest in and to Letters patent, and the inventions therein

disclosed, and any improvements thereon, the same to be held and enjoyed by the said Assignee

for its own use and benefit, and for the use and benefit of its successors, assigns or other legal

representatives to the full end of the term for which said Letters Patent has been granted or may

be granted, as fully and entirely as the same would have been held and enjoyed by said Assignor,

if this assignment and sale had not been made; together with all claims for damages by reason of

past infringement of said Letters Patent, with the right to sue for, and collect the same for its own

use and benefit, and for the use and benefit of its successors, assigns and other legal

representatives.

Toyota Motor Engineering &

Manufacturing North America, Inc.

Date: August 28, 2019 Name

Title: Intellectual Property Counsel

15269938.1

PATENT REEL: 050278 FRAME: 0617

RECORDED: 09/05/2019