504478980 07/28/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4525682

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|--|
| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE |

CONVEYING PARTY DATA

| Name | Execution Date |
|--|----------------|
| TOYOTA MOTOR ENGINEERING & MANUFACTURING, NORTH AMERICA INC. | 04/17/2017 |

RECEIVING PARTY DATA

| Name: | UNITED STATES DEPARTMENT OF ENERGY | |
|-----------------|------------------------------------|--|
| Street Address: | 1000 INDEPENDENCE AVE. S.W. | |
| City: | WASHINGTON | |
| State/Country: | D.C. | |
| Postal Code: | 20585 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14831208 |

CORRESPONDENCE DATA

Fax Number: (630)252-2779

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: (630) 252-2137

Email: Confirmatory.License@science.doe.gov

Correspondent Name: TIMOTHY L HARNEY **Address Line 1:** 9800 S. CASS AVE

Address Line 2: IPLD

Address Line 4: ARGONNE, ILLINOIS 60439

| ATTORNEY DOCKET NUMBER: | S-141,978 |
|-------------------------|--------------------|
| NAME OF SUBMITTER: | TIMOTHY L HARNEY |
| SIGNATURE: | /Timothy L Harney/ |
| DATE SIGNED: | 07/28/2017 |

Total Attachments: 2

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PATENT 504478980 REEL: 043129 FRAME: 0791

Department of Energy Office of Science science.energy.gov/isc/services/iegal/

CONFIRMATORY LICENSE

Title of Invention: Configurable Double-Sided Modular Jet Impingement Assemblies For Electronics Cooling

Inventor(s): Feng, Zhou and Ercan Mehmet Dede

Patent Application Serial No: 14/831,208 Filing Date: 08/20/2015

Patent Number: N/A Issue Date: N/A

Name of Licensor: Toyota Motor Engineering & Manufacturing, North America Inc.

("TEMA")

DOE Cooperative Agreement: DE-EE0006429 (Arkansas Power Electronics International,

Inc.-Recipient).

DOE Case No.: S-141,978 Licensor Docket No.: 2015-034; 2015-073 IP-A-1778

TEMA has reported the above-identified invention as a Subject Invention to DOE and has elected to retain title thereto.

Accordingly, this document is confirmatory of the nonexclusive, nontransferable, irrevocable, paid-up, worldwide license in this subject invention, patent application and any resulting patent, including any continuation, divisional, reissue, or supplemental application thereof, to practice or to have practiced for or on behalf of the United States throughout the world; and of all other rights acquired by the Government by the patent rights clause in the above-identified contract.

It is understood and agreed that this license does not preclude the Government from asserting rights under the provisions of said Cooperative Agreement DE-EE0006429 or of any other agreement between the Government and TEMA, or from asserting any other rights of the Government with respect to the above-identified subject invention.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Toyota Motor Engineering & Manufacturing, North America Inc.

Fredrick W. Mau

Intellectual Property Counsel

Toyota Motor North America, Inc.

PATENT REEL: 043129 FRAME: 0792

Signed on: 1/17/2017

RECEIVED APR 17,2017

PATENT REEL: 043129 FRAME: 0793

RECORDED: 07/28/2017