11/16/2017 504645752

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4692472

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| GREGORY JAMES HAMPSON | 10/10/2017 |
| DOMENICO CHIERA | 09/26/2017 |

RECEIVING PARTY DATA

| Name: | WOODWARD, INC. | |
|-----------------|-------------------|--|
| Street Address: | 1081 WOODWARD WAY | |
| City: | FORT COLLINS | |
| State/Country: | COLORADO | |
| Postal Code: | 80524 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15714699 |

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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: 214-292-4039 Email: apsi@fr.com

Correspondent Name: FISH & RICHARDSON P.C.

Address Line 1: P.O. BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

| ATTORNEY DOCKET NUMBER: | 35959-0080001 | |
|-------------------------|-------------------|--|
| NAME OF SUBMITTER: | PEGGY C. HARRIS | |
| SIGNATURE: | /Peggy C. Harris/ | |
| DATE SIGNED: | 11/16/2017 | |

Total Attachments: 3

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> **PATENT REEL: 044150 FRAME: 0949** 504645752

Attorney Docket No.: 35959-0080001 / XS-3168

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, GREGORY JAMES HAMPSON, and DOMENICO CHIERA, each individually assign to WOODWARD, INC., a corporation formed under the laws of Delaware and having a principal place of business at 1081 Woodward Way, Fort Collins, CO 80524, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "PASSIVE PUMPING FOR RECIRCULATING EXHAUST GAS," and was filed in the United States Patent and Trademark Office on September 25, 2017, as application 15/714,699 (the "Application"). We authorize the insertion of the filing date and application number above.

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and

Assignment Page 1 of 3

documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

DATE: 10/10/17

State of Colorado

County of <u>Neld</u>

The foregoing instrument was acknowledged before me this 10 October 2017 by

Gregory Janes Hampoon

(Notary's official signature)

<u>28 July 2020</u>

(Commission éxpiration date)

TIMOTHY ROY HARPER NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20164028683 MY COMMISSION EXPIRES JUL 28, 2020

Attorney Docket No.: 35959-9080001 / XS-3168

| Domenico Chiera | DATE: 09 26- 2017 |
|--|---|
| State of Colorado County of Larings | |
| • | d before me this <u>SepKmices, 210, 2017</u> by |
| WWWLLLAW (Notary's difficial signature) 10127 2019 (Commission expiration date) | |
| | |
| The Assignee hereby acknowledges and acce | epts the foregoing assignment. |
| Assignee: WOODWARD, INC. Signature: R. L. | Date: 10 October 2017 |
| Name: Timothy R. Harper | |
| Title: Patent Coordinator, Woodward Inc., IC | CG Large Engine |
| | |
| 91133204.doc | |

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PATENT REEL: 044150 FRAME: 0952