

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT6669426

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
LESLIE BROMBERG	04/21/2021
DANIEL R. COHN	03/17/2021
JOHN B. HEYWOOD	10/21/2020

**RECEIVING PARTY DATA**

<b>Name:</b>	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
<b>Street Address:</b>	77 MASSACHUSETTS AVENUE
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02139

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	17024236

**CORRESPONDENCE DATA**

**Fax Number:** (617)310-9000

*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:** (617)439-2000

**Email:** docket@nutter.com

**Correspondent Name:** NUTTER MCCLENNEN & FISH LLP

**Address Line 1:** SEAPORT WEST, 155 SEAPORT BOULEVARD

**Address Line 4:** BOSTON, MASSACHUSETTS 02210-2604

<b>ATTORNEY DOCKET NUMBER:</b>	101328-599 (MIT 11381)
<b>NAME OF SUBMITTER:</b>	RORY P. PHEIFFER
<b>SIGNATURE:</b>	/Rory P. Pheiffer/
<b>DATE SIGNED:</b>	04/21/2021

**Total Attachments: 18**

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source=MIT 11381 (101328-599) - Assignment - John B. Heywood#page6.tif

## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made by Leslie Bromberg; Daniel R. Cohn; and John B. Heywood (hereinafter referred to as Assignors), residing at 176 Wilshire Drive, Sharon, Massachusetts 02067; 100 Memorial Drive, Apt 11-22 B, Cambridge, Massachusetts 02142; and 218 Mill Street, Newtonville, Massachusetts 02460, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in OPTIMIZED FUEL MANAGEMENT SYSTEM FOR DIRECT INJECTION ETHANOL ENHANCEMENT OF GASOLINE ENGINES, set forth in a Patent application for Letters Patent of the United States, already filed on September 17, 2020 as U.S. Application No. 17/024,236; and

**WHEREAS**, Massachusetts Institute of Technology, a university organized under and pursuant to the laws of Massachusetts having its principal place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the

same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignors hereby request the Commissioner for Patents and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

**AND** Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply

with the rules of the United States Patent and Trademark Office for recordation of this document:

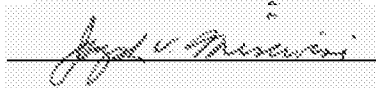
NUTTER MCCLENNEN & FISH LLP

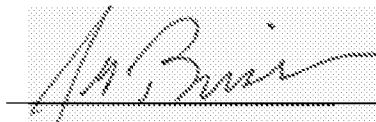
All practitioners at Customer Number 161420

**AND** Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

  
Leslie Bromberg

Date: April 21, 2021

  
\_\_\_\_\_  
Joseph V. Minervini (signature of witness)  
\_\_\_\_\_  
Joseph V. Minervini (name of witness)

  
\_\_\_\_\_  
John Brisson (signature of witness)  
\_\_\_\_\_  
John Brisson (name of witness)

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Daniel R. Cohn

Date: \_\_\_\_\_

\_\_\_\_\_ (signature of witness)

\_\_\_\_\_ (name of witness)

\_\_\_\_\_ (signature of witness)

\_\_\_\_\_ (name of witness)

\_\_\_\_\_  
John B. Heywood

Date: \_\_\_\_\_

\_\_\_\_\_ (signature of witness)

\_\_\_\_\_ (name of witness)

\_\_\_\_\_ (signature of witness)

\_\_\_\_\_ (name of witness)

4931962.1



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NUTTER MCCLENNEN & FISH LLP

All practitioners at Customer Number 161420

**AND** Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

\_\_\_\_\_  
Leslie Bromberg

Date: \_\_\_\_\_

\_\_\_\_\_ (signature of witness)

\_\_\_\_\_ (name of witness)

\_\_\_\_\_ (signature of witness)

\_\_\_\_\_ (name of witness)

Daniel R. Cohn  
Daniel R. Cohn

Date: March 17, 2021

Daniel R. Cohn (signature of witness)

Stanley M. Cohen (name of witness)

Barbara Cohen (signature of witness)

Barbara Cohen (name of witness)

\_\_\_\_\_  
John B. Heywood

Date: \_\_\_\_\_

\_\_\_\_\_ (signature of witness)

\_\_\_\_\_ (name of witness)

\_\_\_\_\_ (signature of witness)

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\_\_\_\_\_  
Leslie Bromberg

Date: \_\_\_\_\_

\_\_\_\_\_  
(signature of witness)

\_\_\_\_\_  
(name of witness)

\_\_\_\_\_  
(signature of witness)

\_\_\_\_\_  
(name of witness)

\_\_\_\_\_  
Daniel R. Cohn

Date: \_\_\_\_\_

\_\_\_\_\_  
(signature of witness)

\_\_\_\_\_  
(name of witness)

\_\_\_\_\_  
(signature of witness)

\_\_\_\_\_  
(name of witness)

*John B. Heywood*

John B. Heywood

Date: 10/21/2020

*[Signature]*

(signature of witness)

LEONARD W. HEYWOOD

(name of witness)

*[Signature]*

(signature of witness)

MARGUERITE HEYWOOD

(name of witness)

4931962.1