

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4134874

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

**CONVEYING PARTY DATA**

| Name             | Execution Date |
|------------------|----------------|
| TAKUYA TEZUKA    | 11/04/2016     |
| HISASHI NAKAMURA | 11/04/2016     |
| KAORU MARUTA     | 11/04/2016     |
| SOICHIRO KATO    | 11/04/2016     |
| SHINTARO ITO     | 11/04/2016     |

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**PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 15346962 |

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|---|------------------------------------|
| <b>ATTORNEY DOCKET NUMBER:</b>  | 4371-0159                          |
| <b>NAME OF SUBMITTER:</b>   | STEVEN P. WEIHROUCH REG. NO. 32829 |
| <b>SIGNATURE:</b>   | /Steven P. Weihrouch/              |
| <b>DATE SIGNED:</b>   | 11/09/2016                         |
| <b>Total Attachments: 4</b><br>source=4371-0159 Assignment#page1.tif<br>source=4371-0159 Assignment#page2.tif<br>source=4371-0159 Assignment#page3.tif<br>source=4371-0159 Assignment#page4.tif |                                    |

**ASSIGNMENT BY INVENTOR(S) OF PATENT APPLICATION FOR ALL COUNTRIES**

BE IT KNOWN THAT, for good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR(S)) by

Name: (1) Tohoku University  
(2) IHI Corporation

Address at (1) 1-1, Katahira 2-chome, Aoba-ku, Sendai-shi, Miyagi 980-8577 Japan  
(2) 1-1, Toyosu 3-chome, Koto-ku, Tokyo 135-8710 Japan

(hereinafter ASSIGNEE),

the receipt and adequacy of which is hereby acknowledged, ASSIGNOR(s) hereby sell(s), assign(s) and transfer(s) to ASSIGNEE

all of his/her right, title and interest in, to and under the invention and application entitled:

COMBUSTION EXPERIMENT DEVICE

for which application for Letters Patent of the United States ASSIGNOR(S) is/are the sole or a joint inventor and which application was executed on even date herewith or is identified as follows

U.S. Serial No. or PCT Appln. No.: PCT/JP2015/063785 Filing Date: May 13, 2015

*(Rothwell, Figg, Ernst & Manbeck is hereby authorized to insert the series code, serial or application number and/or filing date hereon, when known)*

and all Letters Patent of the United States to be obtained on said application or on any continuation, division, reissue, reexamination or extension thereof and all rights connected therewith, and all applications for Letters Patent which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof and all rights of priority in any such country or countries based upon the filing of the said application for Letters Patent of the United States which are created by any law, treaty or international convention, for the full term or terms for which the same may be granted, including all rights to recover damages for any and all past infringement; and

ASSIGNOR(S) agree(s) to execute all papers necessary in connection with said application and any continuing, divisional, reissue or reexamination applications thereof and to execute separate assignments in connection with such applications as ASSIGNEE may deem necessary.

ASSIGNOR(S) agree(s) to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent, reissue patent or reexamination certificate issued thereon and to cooperate with ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

ASSIGNOR(S) covenant(s) that he/she has the full right to convey the entire interest herein assigned and has not executed, and will not execute, any agreement in conflict herewith.

Rothwell, Figg, Ernst & Manbeck, P.C.

Attorney Docket No.

ASSIGNOR(S) acknowledge(s) that ASSIGNEE may appoint any attorney or practitioner of ASSIGNEE'S choice to prosecute any application or other legal proceeding involving said invention and ASSIGNOR(S) further acknowledge(s) that any attorney or practitioner so appointed by ASSIGNEE does not represent ASSIGNOR(S) and that such appointment by ASSIGNEE does not create any attorney-client relationship between ASSIGNOR(S) and any attorney or practitioner appointed by ASSIGNEE.

IN WITNESS WHEREOF, ASSIGNOR(S) has/ have affixed his/her signature below.

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| Signature: <i>T. Tezuka</i>        | November 4, 2016 |
| Typed Name: Takuya TEZUKA          |                  |
| Signature: <i>Hisashi Nakamura</i> | November 4, 2016 |
| Typed Name: Hisashi NAKAMURA       |                  |
| Signature: <i>Kaoru Maruta</i>     | November 4, 2016 |
| Typed Name: Kaoru MARUTA           |                  |
| Signature:                         | Date:            |
| Typed Name: Soichiro KATO          |                  |
| Signature:                         | Date:            |
| Typed Name: Shintaro ITO           |                  |

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the receipt and adequacy of which is hereby acknowledged, ASSIGNOR(s) hereby sell(s), assign(s) and transfer(s) to ASSIGNEE

all of his/her right, title and interest in, to and under the invention and application entitled:

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for which application for Letters Patent of the United States ASSIGNOR(S) is/are the sole or a joint inventor and which application was executed on even date herewith or is identified as follows

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and all Letters Patent of the United States to be obtained on said application or on any continuation, division, reissue, reexamination or extension thereof and all rights connected therewith, and all applications for Letters Patent which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof and all rights of priority in any such country or countries based upon the filing of the said application for Letters Patent of the United States which are created by any law, treaty or international convention, for the full term or terms for which the same may be granted, including all rights to recover damages for any and all past infringement; and

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ASSIGNOR(S) agree(s) to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent, reissue patent or reexamination certificate issued thereon and to cooperate with ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

ASSIGNOR(S) covenant(s) that he/she has the full right to convey the entire interest herein assigned and has not executed, and will not execute, any agreement in conflict herewith.

Page 1 of 2  
Last Modified 7/8/2016

**PATENT**  
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Attorney Docket No.

ASSIGNOR(S) acknowledge(s) that ASSIGNEE may appoint any attorney or practitioner of ASSIGNEE'S choice to prosecute any application or other legal proceeding involving said invention and ASSIGNOR(S) further acknowledge(s) that any attorney or practitioner so appointed by ASSIGNEE does not represent ASSIGNOR(S) and that such appointment by ASSIGNEE does not create any attorney-client relationship between ASSIGNOR(S) and any attorney or practitioner appointed by ASSIGNEE.

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|                                 |                  |
|---------------------------------|------------------|
| Signature:                      | Date:            |
| Typed Name: Takuya TEZUKA       |                  |
| Signature:                      | Date:            |
| Typed Name: Hisashi NAKAMURA    |                  |
| Signature:                      | Date:            |
| Typed Name: Kaoru MARUTA        |                  |
| Signature: <i>Soichiro Kato</i> | November 4, 2016 |
| Typed Name: Soichiro KATO       | Date:            |
| Signature: <i>Shintaro Ito</i>  | November 4, 2016 |
| Typed Name: Shintaro ITO        | Date:            |

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