

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT8132420

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|---|---------------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| IHI CORPORATION | 08/16/2023 |
| RECEIVING PARTY DATA | |
| Name: | MITSUI E&S DU CO., LTD. |
| Street Address: | 5292, AIOI |
| City: | AIOI-SHI, HYOGO |
| State/Country: | JAPAN |
| Postal Code: | 678-0041 |
| PROPERTY NUMBERS Total: 8 | |
| Property Type | Number |
| Patent Number: | 11098620 |
| Patent Number: | 11156172 |
| Patent Number: | 11199140 |
| Patent Number: | 11131254 |
| Patent Number: | 11174826 |
| Patent Number: | 11053865 |
| Patent Number: | 11105281 |
| Patent Number: | 11306649 |
| CORRESPONDENCE DATA | |
| Fax Number: | (202)783-6031 |
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| NAME OF SUBMITTER: | JOSEPH A. HYNDS (REG. NO. 34,627) |
| SIGNATURE: | /Joseph A. Hynds/ |

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| DATE SIGNED: | 08/24/2023 |
| Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif | |

ASSIGNMENT

WHEREAS, IHI Corporation, a corporation of Japan having a place of business at 1-1, Toyosu 3-chome, Koto-ku, Tokyo 135-8710, Japan, ("ASSIGNOR"), by assignment, all right, title, and interest in the U.S. Patents listed on EXHIBIT A of this document (collectively the "Patents"), and any invention(s) claimed therein; and

WHEREAS, Mitsui E&S DU Co., Ltd., a corporation of Japan having a place of business at 5292, Aioi, Aioi-shi, Hyogo 678-0041, Japan ("ASSIGNEE"), desires to acquire ASSIGNOR'S entire right, title, and interest in and to the Patents.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. ASSIGNOR hereby sells, assigns, transfers, and sets over to ASSIGNEE, its lawful successors and assigns, ASSIGNOR'S entire right, title, and interest in and to the Patents, the invention(s) claimed therein, any other resulting patent application(s), and all Letters Patent of the United States that may be granted thereon, and all continuations, reissues, reexaminations, and extensions thereof; and all rights to claim priority on the basis of such application(s), and all applications for Letters Patent that may be filed for the invention(s) in any foreign country and all Letters Patent that may be granted on the invention(s) in any foreign country, and all extensions, renewals, and reissues thereof;

2. ASSIGNOR hereby grants to ASSIGNEE the right to recover damages and all other relief for all infringements of the Patents that have occurred prior to the date of this Assignment with the right to sue for and collect the same, for ASSIGNEE's own use and enjoyment and for the use and enjoyment of their successors, assigns or other legal representatives, free and clear of all liens, claims, charges, security interests, and other encumbrances;

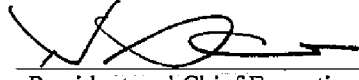
3. ASSIGNOR covenants that ASSIGNOR has the full right to convey the interest assigned by this Assignment;

4. ASSIGNOR hereby further covenants and agrees that ASSIGNOR, through its officers and employees, will, without further consideration, communicate with ASSIGNEE, its successors and assigns, any facts known to ASSIGNOR and its officers, employees, and agents respecting the Patents and invention(s) and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to the Patents and invention(s) in said ASSIGNEE, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths, and generally do everything possible to aid ASSIGNEE, its successors and assigns, to obtain and enforce proper patent protection for the invention(s) in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by ASSIGNEE, its successors and assigns. IN TESTIMONY WHEREOF, each party has caused its authorized representative to execute this Assignment.

ASSIGNOR:

IHI Corporation
Hiroshi IDE

By:


Title: President and Chief Executive Officer

Date:

16 Aug. 2023

ASSIGNEE:

Mitsui E&S DU Co., Ltd.
Hiroyuki TAKUMI

By:


Title: President & CEO

Date:

9th of August, 2023

EXHIBIT A

| No. | Country | Application No. | Patent No. | Filing Date | Issue Date | Title |
|-----|---------|-----------------|------------|-------------|------------|---|
| 1 | US | 16/953,477 | 11,098,620 | 11/20/2020 | 8/24/2021 | VARIABLE COMPRESSION RATIO MECHANISM |
| 2 | US | 16/987,567 | 11,156,172 | 8/7/2020 | 10/26/2021 | COMPRESSION RATIO VARYING MECHANISM |
| 3 | US | 16/891,969 | 11,199,140 | 6/3/2020 | 12/14/2021 | ENGINE |
| 4 | US | 16/894,749 | 11,131,254 | 6/5/2020 | 9/28/2021 | MARINE ENGINE |
| 5 | US | 17/008,860 | 11,174,826 | 9/1/2020 | 11/16/2021 | ENGINE |
| 6 | US | 17/021,101 | 11,053,865 | 9/15/2020 | 7/6/2021 | COMPRESSION RATIO CONTROL DEVICE AND ENGINE |
| 7 | US | 17/021,357 | 11,105,281 | 9/15/2020 | 8/31/2021 | MARINE ENGINE |
| 8 | US | 17/080,349 | 11,306,649 | 10/26/2020 | 4/19/2022 | ENGINE SYSTEM |