

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5098133

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MITSUBISHI HEAVY INDUSTRIES, LTD.	08/10/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD.
<b>Street Address:</b>	3000, TANA, CHUO-KU, SAGAMIHARA-SHI
<b>City:</b>	KANAGAWA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	252-5293
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14760987
<b>Application Number:</b>	15104505
<b>Application Number:</b>	15542035
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(503)439-6558
<i>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.</i>	
<b>Phone:</b>	5034396500
<b>Email:</b>	docketing@bltg-ip.com
<b>Correspondent Name:</b>	KRISTI SCHROEDER
<b>Address Line 1:</b>	17933 NW EVERGREEN PLACE SUITE 250
<b>Address Line 4:</b>	BEAVERTON, OREGON 97006
<b>ATTORNEY DOCKET NUMBER:</b>	205.P011PCTUS, P030, P040
<b>NAME OF SUBMITTER:</b>	KRISTI SCHROEDER
<b>SIGNATURE:</b>	/Kristi Schroeder/
<b>DATE SIGNED:</b>	08/17/2018
<b>Total Attachments: 2</b>	
source=Assignment#page1.tif	
source=Assignment#page2.tif	

OSP-58277 他2件  
米園 (berkeley事務所)  
譲渡証 1/2

ASSIGNMENT

Docket No. 205.P011PCTUS; 205.P030PCTUS;  
205.P040PCTUS

This patent assignment agreement is entered into by and between **MITSUBISHI HEAVY INDUSTRIES, LTD.** having a mailing address located at 16-5, Konan 2-chome, Minato-ku, Tokyo 108-8215 Japan (hereinafter "MHI" or "ASSIGNOR"), and **MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD.**, having a mailing address located at 3000, Tana, Chuo-ku, Sagamihara-shi, Kanagawa 252-5293 Japan (hereinafter "ASSIGNEE") (collectively "the parties"). The parties desire to have their agreement recorded at the United States Patent and Trademark Office.

For good and valuable consideration, the receipt of which is hereby acknowledged, MHI does hereby confirm that MHI has sold, assigned, conveyed, and transferred, and by these presents does hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to the United States Patent Applications listed in Exhibit A of this patent assignment agreement, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States (collectively the "PATENT(S)");

AND MHI authorizes and requests the Commissioner of Patents of the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said PATENT(S) to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND MHI sells, assigns, transfers, and conveys to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which MHI may be entitled, or that MHI may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND MHI covenants and agrees that, without requiring additional consideration, MHI will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to it respecting said PATENT(S), and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said PATENT(S);

AND MHI represents that it has full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenants that MHI has not and will not execute any writing or do any act whatsoever conflicting with the PATENT(S).

OSP-58977/10217  
米国 (berkeley 事務所)  
譲渡証 2/2

ASSIGNOR

Done at Tokyo, Japan, on August 10, 2018  
LOCATION DATE

Hiroimichi ITO  
SIGNATURE OF REPRESENTATIVE

Hiroimichi ITO, General Manager of Intellectual  
Property Department  
NAME OF COMPANY REPRESENTATIVE

MITSUBISHI HEAVY INDUSTRIES, LTD.

ASIGNEE

Sagamihara-shi,  
Done at Japan, on August 10, 2018  
LOCATION DATE

Seiichirou HANAI  
SIGNATURE OF REPRESENTATIVE

Seiichirou HANAI, General Manager of Quality  
Assurance Department  
NAME OF COMPANY REPRESENTATIVE

MITSUBISHI HEAVY INDUSTRIES ENGINE &  
TURBOCHARGER, LTD.

EXHIBIT A

REF. NO.	PATENT APPLICATION NO.	TITLE	APPLICATION DATE
205.P011PCTUS	14/760,987	CYLINDER HEAD AND ENGINE	7/14/2015
205.P030PCTUS	15/104,505	GAS ENGINE AND ASSEMBLING METHOD FOR GAS ENGINE	6/14/2016
205.P040PCTUS	15/542,035	KNOCKING CONTROL METHOD	7/6/2017