506225088 08/27/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6271831

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TSUYOSHI KITAMURA	08/06/2020
TAKAO YOKOYAMA	08/06/2020
KUNIHIRO TOMIKAWA	08/06/2020
MAKOTO OZAKI	08/06/2020

RECEIVING PARTY DATA

Name:	MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD.
Street Address:	3000, TANA, CHUO-KU
City:	SAGAMIHARA-SHI, KANAGAWA
State/Country:	JAPAN
Postal Code:	252-5293

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	16976315		

CORRESPONDENCE DATA

Fax Number: (703)205-8050

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: 7032058000

Email: mailroom@bskb.com, thuy-kim.t.nguyen@bskb.com

BIRCH STEWART KOLASH & BIRCH LLP **Correspondent Name:** Address Line 1: 8110 GATEHOUSE ROAD, SUITE 100E

Address Line 4: FALLSCHURCH, VIRGINIA 22042

ATTORNEY DOCKET NUMBER:	4898-0444PUS1
NAME OF SUBMITTER:	THUY-KIM T. NGUYEN
SIGNATURE:	/Thuy-Kim T. Nguyen/
DATE SIGNED:	08/27/2020

Total Attachments: 9

source=2020-08-27-DEC-asfiled-4898-0444PUS1-#page1.tif source=2020-08-27-DEC-asfiled-4898-0444PUS1-#page2.tif source=2020-08-27-DEC-asfiled-4898-0444PUS1-#page3.tif

SN: 16/976,315 08/27/2020

Attorney Docket No. 4898-0444PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 • Falls Church, Virginia 22040-0747 Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: mailroom@bskb.com

DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

UNITED STATES PATENT RICHTS, OR United States Plus all Poreign Patent Rights

As a below named inventor (hereinafter designated as the undersigned), I hereby declare that

Title of Invention 🖟 TURBOCHARGER AND INTERNAL COMBUSTION ENGINE

This declaration is directed to the application attached hereto. If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following: Emer Applic No 🗢 United States Application Number or PCT International Applic. No. PCT/JP2018/008322 Enter Fileng Date ⇒ filled on March 5, 2018

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.

WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.

Insert Name of Assignee

Application not

Attached

* WHEREAS, MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD.

Insert Address of Assignee

🗢 of 3000, Tana, Chuo-ku, Sagamihara-shi, Kanagawa 252-5293, Japan,

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

Check Box if Appropriate

in any foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

Page 1

BSKB-DECASSIGN(09-12)

The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agrees to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office

The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

Additional inventors are being named on the 1 supplemental sheet(s) attached hereto.

LEGAL	NAME	OF IN	AEMIOR

		Tsuyoshi KITAMURA	Date:	August 6, 2	2020
Inventor's Signature 🤏	Signature	Tsuyoshi Kitomura		,	
		O/SB/14 or equivalent), including naming the entire inventive inventive inventor; or check the box below and complete the attached pay			

Page 2

BSK8-DECASSIGN-SINGLE (09-12)

SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

ADDITIONAL INVENTOR(S) Supplemental Sheet Page _1_ of _1_

	LEGAL N.	AME OF JOINT INVENTOR, IF ANY		
Invantor's Namo - **	' Inventor;	Takao YOKOYAMA	Date:	August 6,2020
Inventor's Signature 🕏	Signature:	Tukan Johngama.	***************************************	
	LEGAL N	AME OF JOINT INVENTOR, IF ANY		
inventor's Name 💢 🖘	Inventor:	Kunihiro TOMIKAWA	Date:	
Inventor's Signature ↔	Signature:			
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
hazatats Nome 🛚 🤝	Inventor:	Makoto OZAKI	Date:	
ltwentor's filgnæinne ⇔	Signature:			

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SN: 16/976,315 08/27/2020

Attorney Docket No. 4898-0444PUSI

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 • Falls Church, Virginia 22040-0747 Telephone: (703) 205-8000 * Facsimile: (703) 205-8050 * Email: mailroom@bskb.com

DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

UNITED STATES PATENT RIGHTS, OR United States Plus all Foreign Patent Rights

Title of Invention 🖟 TURBOCHARGER AND INTERNAL COMBUSTION ENGINE

		This declaration is directed to the application attached hereto.
Application not Attached		If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following:
Enter Applit, No	₽	United States Application Number or PCT International Applin. No. PCT/JP2018/008322

As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:

Enter Films Date ⇒ filed on March 5, 2018

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56,

WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.

Insert Name of Assignee

WHEREAS, MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD.

Insert Address of Assignee

🗳 of 3000, Tana, Chuo-ku, Sagamihara-shi, Kanagawa 252-5293, Japan,

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patentie) that may be granted therefor in the United States of America and

Check Box if Approprisie

in any foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

Page 1

BSKB-DECASSIGN(09-12)

The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Fatent and Trademark Office.

The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

LEGAL NAME OF INVENTOR

aventar's tisme " Inventor:	Tsuyoshi KITAMURA	Date:
nesnerskignalure - Signature:		
	O/SB/14 or equivalent), including naming the entire inventive inventor, or check the box below and complete the attached pa	
(X) Additional inventors are b	sing named on the 1 supplemental sheet(s) attached hereto	

Page 2

BSKB-DECASSIGN-SINGLE (09-12)

SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

		LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
inventor's Name	ጭ.	Inventor.	Takao YOKOYAMA	Date:	
brventor's Signature	•	Signature:			
		LEGAL N	AME OF JOINT INVENTOR, IF ANY		
inventor's Name	45	Inventor:	Kunihire TOMIKAWA	Dates	August 6, 2020
inventor's Signature	\$	Signature:	Yusihira Toxikana		
		LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
inventor's Name	ø	Inventor:	Makoto OZAKI	Date	
loventor's Signature	ø	Signature:			

REKE-DECASSIGN\(09-12)

SN: 16/976,315 08/27/2020

Attorney Docket No. 4898-0444PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 * Falls Church, Virginia 22040-0747 Telephone: (703) 205-8000 * Facsimile: (703) 205-8050 * Email: mailroom@bskb.com

DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

United States Patent Rights, or United States Plus all Foreign Patent Rights

Tible of Invention 🔑 TURBOCHARGER AND INTERNAL COMBUSTION ENGINE

		As a below named inventor (hereinafter designated as the undersigned). I hereby declare that
		This declaration is directed to the application attached hereto.
Application not Attached	ĸ	If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following:
ënter Appin. No	K)	United States Application Number or PCT International Appln. No. PCT/JP2018/008322
Enter Fiding Clair	E)	filed on March 5, 2018
		The above-identified application was made or authorized to be made by me,
		I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
		I have reviewed and understand the contents of the above-identified application, including the claims.
		I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.
		WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.
Insert Name of Assignce	43	WHEREAS, MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD.
lneers Address of Assignce		of 3000, Tana, Chuc-ku, Sagamihara-shi, Kanagawa 252-5293, Japan,
		its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and
Check Box if Appropriate	ф	in any foreign countries.
		NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any

Page 1

terms for which the same may be granted.

and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or

BSKB-DECASSIGN(09-12)

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In witness whereof, executed by the undersigned on the date opposite the undersigned name.

LEGAL NAME OF INVENTOR

Inventor's Name	ΧĎ	Inventor:	Tsuyoshi KITAMURA	Date:					
Inventor's Signalu	(e 🜣	Signature:		***************************************					
An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use a separate form for each inventor; or check the box below and complete the attached page(s) to list additional inventors.									
Additional inventors are being named on the 1_supplemental sheet(s) attached hereto.									

Page 2

BSK8-DECASSIGN-SINGLE (09-12)

SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

	LEGAL N	AME OF JOINT INVENTOR, IF ANY		
inventor's Name 🤝	Inventor	Takao YOKOYAMA	Onte:	
inventor's ingustare 🤫	Signature			
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
inventor's Name	Inventor:	Kunihiro TOMIKAWA	Date:	÷
inventor's Signature ⇔	Signature:			
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
hwester's Name 🧪	Inventor	Makoto OZAKI	Date:	August 6, 2020
kweoloc's Signature 🗢	Signature:	<u>mahete</u> Qaki	*********	•

BSKB-DBCASSICIA (09-12)

PATENT REEL: 053620 FRAME: 0411

RECORDED: 08/27/2020