504306654 04/05/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4353335

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TADASUKE NISHIOKA	03/28/2017
YOSUKE DANMOTO	03/28/2017
ISAO TOMITA	03/28/2017
TAKASHI NAMBU	03/28/2017
YOJI AKIYAMA	03/28/2017
YUYA KOJIMA	03/28/2017
TATSUYA ISHIZAKI	03/28/2017
SEIGI YANO	03/28/2017
TAKAYA FUTAE	03/28/2017
MOTOKI EBISU	03/28/2017

RECEIVING PARTY DATA

Name:	MITSUBISHI HEAVY INDUSTRIES, LTD.
Street Address:	16-5, KONAN 2-CHOME, MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	108-8215

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15515332

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, phillip.tashjian@bskb.com BIRCH, STEWART, KOLASCH & BIRCH, LLP. Correspondent Name:

Address Line 1: P.O. BOX 747

Address Line 4: FALLS CHURCH, VIRGINIA 22040-0747

ATTORNEY DOCKET NUMBER: 4898-0298PUS1

> PATENT REEL: 041853 FRAME: 0207

504306654

NAME OF SUBMITTER:	PHILLIP R. TASHJIAN
SIGNATURE:	/Phillip R. Tashjian/
DATE SIGNED:	04/05/2017
Total Attachments: 16	
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> PATENT REEL: 041853 FRAME: 0208

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Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: mailroom@bskb.com

DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

	ONITED STATEST LOS ALL PUREIGN FATEINT RIGHTS
Title of Invention	$\ensuremath{^{\Rightarrow}}$ OIL-DRAIN DEVICE FOR THRUST BEARING DEVICE AND TURBOCHARGER PROVIDED WITH THE SAME
	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	⇔ 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 Appln. No.	□ United States Application Number or PCT International Appln. No. PCT/JP2014/083588
Enter Filing Date	⇒ filed on December 18, 2014 .
	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, LTD.
Insert Address of Assignee	⇔ of 16-5, Konan 2-chome, Minato-ku, Tokyo 108-8215, 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 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.

LEGAL N	AME OF INVENTOR		
Inventor's Name	Tadasuke NISHIOKA	Date:	Mar. 28, 2017
Inventor's Signature "> Signature:	Tadasuke Mishiaka		

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 2 supplemental sheet(s) attached hereto.

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 2

LEGAL NAME OF JOINT INVENTOR, IF ANY

Inventor's Name	⇒ Invento	or: Yosuke DANMOTO	Date: Mar 28, 2017	
Inventor's Signature	⇒ Signatu	re: Jens		
	LEGAI	L NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇔ Invento	r: Isao TOMITA	Date:	
Inventor's Signature	⇒ Signatu	re:		
	LEGAI	L NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇒ Invento	r: Takashi NAMBU	Date: Mar. 28, 2017	
		The same		
	LEGAI	. NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇒ Invento	r: Yoji AKIYAMA	Date: Mar 28, 2017	
		1, 1, 01,1	,	
	LEGAL	NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇒ Invento	r: Yuya KOJIMA	Date:	
Inventor's Signature	⇒ Signatuı	re:	VICTOR OF TOTAL AND	
	LEGAL	NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇒ Inventor	r: Tatsuya ISHIZAKI	Date:	
Inventor's Signature	⇒ Signatuı	re:	The state of the s	
	LEGAL	NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name =	> Inventor	Seigi YANO	Date:	
Inventor's Signature =	⇒ Signatur	re:		

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 2 of 2

LEGAL NAME OF JOINT INVENTOR, IF ANY

Inventor's Name	⇒ Inventor:	Takaya FUTAE	Date:	
Inventor's Signatur	^{e ⇒} Signature:			
	LEGAL N	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇒ Inventor:	Motoki EBISU	Date:	
Inventor's Signatur	e ⇒ Sionature:			

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	$\ensuremath{^{\Rightarrow}}$ OIL-DRAIN DEVICE FOR THRUST BEARING DEVICE AND TURBOCHARGER PROVIDED WITH THE SAME
	As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:
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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:
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Insert Name of Assignee	⇒ WHEREAS, MITSUBISHI HEAVY INDUSTRIES, LTD.
Insert Address of Assignee	⇔ of 16-5, Konan 2-chome, Minato-ku, Tokyo 108-8215, Japan,
or ruesgree	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

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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.

LEGAL NAME OF INVENTOR

Inventor's Name	□ Inventor:	Tadasuke NISHIOKA	Date:
Inventor's Signature	≥ ⇒ Signature:		
		O/SB/14 or equivalent), including naming the entire inventiventor; or check the box below and complete the attached pa	
	inventors are b	peing named on the 2 supplemental sheet(s) attached heret	

Page 2

BSKB-DECASSIGN-SINGLE (09-12)

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 2

LEGAL NAME OF JOINT INVENTOR, IF ANY

Inventor's Name	⇔	Inventor:	Yosuke DANMOTO	Date: _		
Inventor's Signature	⇔	Signature:				
		LEGAL NA	AME OF JOINT INVENTOR, IF ANY			
Inventor's Name	⇨	Inventor:	Isao TOMITA	Date:		***************************************
Inventor's Signature	⇔	Signature:		www		
		LEGAL NA	AME OF JOINT INVENTOR, IF ANY			
Inventor's Name	⇒	Inventor:	Takashi NAMBU	Date: _		
Inventor's Signature	⇔	Signature:				Was LA.
		LEGAL NA	AME OF JOINT INVENTOR, IF ANY			
Inventor's Name	⇔	Inventor:	Yoji AKIYAMA	Date: _		
Inventor's Signature	⇔	Signature:				
		LEGAL NA	AME OF JOINT INVENTOR, IF ANY			
Inventor's Name	⇒	Inventor:	Yuya KOJIMA	Date:	Mar. 28,	2017
Inventor's Signature	⇔	Signature:	Yoya Kizima			
		LEGAL NA	AME OF JOINT INVENTOR, IF ANY			
Inventor's Name	\(\rightarrow	Inventor:	Tatsuya ISHIZAKI	Date:	Mar. 28,	2017
Inventor's Signature	⇔		Tatsuya d Shizaki			
		LEGAL NA	ME OF JOINT INVENTOR, IF ANY			
nventor's Name	⇒	Inventor:	Seigi YANO	Date:	Mar. 28,	2017
'nventor's Signature	⇔	Signature:	Seigl Jano		F	7

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 2 of 2

LEGAL NAME OF JOINT INVENTOR, IF ANY

Inventor's Name ⇒	Inventor:	Takaya FUTAE	Date:
Inventor's Signature ⇒	Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	Inventor:	Motoki EBISU	Date:
Inventor's Signature ⇒	Sionature:		

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

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Insert Address of Assignee	⇔ of 16-5, Konan 2-chome, Minato-ku, Tokyo 108-8215, 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.

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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	Tadasuke NISHIOKA	Date:		
Inventor's Signature ⇒ 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 2_supplemental sheet(s) attached hereto.				

Page 2

BSKB-DECASSIGN-SINGLE (09-12)

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 2

LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Structure Inventor: Yosuke DANMOTO Date: Inventor's Signature ⇒ Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name

□ Inventor: Isao TOMITA Date: Mar. 28, 2017 Inventor's Signature ⇒ Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Date: Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Signature ⇔ Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Proventor: Yuya KOJIMA Date: Inventor's Signature

Signature:
____ LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Structure Inventor: Tatsuya ISHIZAKI Date: Inventor's Signature ⇒ Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Significant Seignificant Sei Inventor's Signature ⇔ Signature:

BSKB-DECASSIGN\(09-12)

PATENT REEL: 041853 FRAME: 0219

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 2 of 2

LEGAL NAME OF JOINT INVENTOR, IF ANY

Inventor's Name □ Inventor:	Takaya FUTAE	Date: Mar. 28, 2017
Inventor's Signature ⇒ Signature:	Takaya Futae	
LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	Motoki EBISU	Date:
Inventor's Signature ⇒ Signature:		

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Page 2

BSKB-DECASSIGN-SINGLE (09-12)

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Inventor's Name ⇒ Inventor:	Yosuke DANMOTO	Date:
Inventor's Signature ⇔ Signature:		
LEGAL N	IAME OF JOINT INVENTOR, IF ANY	
	Isao TOMITA	Date:
Inventor's Signature ⇔ Signature:		Date:
Signature.		
LEGAL N	IAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	Takashi NAMBU	Date:
Inventor's Signature ⇔ Signature:		
LEGAL N	IAME OF JOINT INVENTOR, IF ANY	
	Yoji AKIYAMA	Date:
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LEGAL N	IAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	Yuya KOJIMA	Date:
Inventor's Signature ⇒ Signature:		
LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name ⇒ Inventor:	Tatsuya ISHIZAKI	Date:
Inventor's Signature ⇒ Signature:		
0		
LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name ⇒ Inventor:	Seigi YANO	Date:
Inventor's Signature ⇒ Signature:		

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 2 of 2

LEGAL NAME OF JOINT INVENTOR, IF ANY

Inventor's Name	⇒ Inventor:	Takaya FUTAE	Date: _	
Inventor's Signatur	^{e ⇒} Signature:			
	LEGAL N	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇒ Inventor:	Motoki EBISU	Date:	Mar. 28, 2017
Inventor's Signature	⇒ Signature:	Motoki Elisa		

BSKB-DECASSIGN\(09-12)

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