### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6932521

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
YASUNORI WATANABE	09/16/2021
TAKAYUKI HAGITA	09/16/2021
SHUNSUKE YAKUSHIJI	09/16/2021
RYOJI OKABE	09/16/2021
HIDEO SAHO	09/16/2021

### **RECEIVING PARTY DATA**

Name:	MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.
Street Address:	2-3, MARUNOUCHI 3-CHOME, CHIYODA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	100-8332

### **PROPERTY NUMBERS Total: 1**

Property Type	Number		
Application Number:	17442397		

### **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

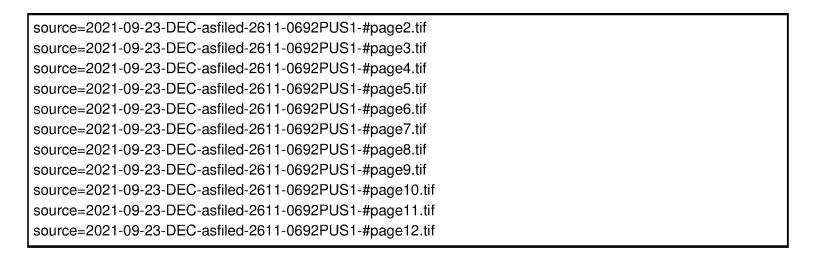
Correspondent Name: BIRCH STEWART KOLASH & BIRCH LLP Address Line 1: 8110 GATEHOUSE ROAD, SUITE 100E

Address Line 4: FALLSCHURCH, VIRGINIA 22042

ATTORNEY DOCKET NUMBER:	2611-0692PUS1
NAME OF SUBMITTER:	THUY-KIM T. NGUYEN
SIGNATURE:	/Thuy-Kim T. Nguyen/
DATE SIGNED:	09/23/2021

**Total Attachments: 12** 

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### 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 → COMPRESSOR FOR AUTOMOBILE AIR CONDITIONING DEVICE

		As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:
Application not Attached	⇔	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:
Enter Appln. No.	⇔	United States Application Number or PCT International Appln. No. PCT/JP2020/008418
Enter Filing Date	⇔	filed on February 28, 2020
		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 THERMAL SYSTEMS, LTD.
Insert Address of Assignee	⇔	of 2-3, Marunouchi 3-Chome, Chiyoda-ku, Tokyo 100-8332 JAPAN,
Ü		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.

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 Leiters 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 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 berein 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	IAME OF INVENTOR				
Inventor's Name ==	' Inventor.	Yasuron WATANABE		Date	September 16, 2021	
Inventor's Signature <	' Signature:	Zana Yat				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
An application d Use a separate fo	lata sheet (P) orm for each	FO/SB/14 or equivalent), incluins the control of th	uding naming the entire ow and complete the att	inventive entity, i ached page(s) to li	must accompany this fort ist additional inventors.	n.
Additional is	ivenbors are	being named on the 1 supplen	nental sheet(s) attached	hereto.		

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### 2611-0692PUS1

# SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

## ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

	EUROVEE (A)	AME OF JUNE HAVENIUM, IF AIN I	September 16, 2021
Inventor's Name - *	* Inventor:	Takayuki II ACITA	Date:
Inventor's Signature s	⇒ Signature:	Talengille Hagita	
	Y 3000 A 3 A 3 A 3	AME OF IOINT INVENTOR, IF ANY	
	LEMAL N	AME OF JOHN INVERSION, IF ART	
Investor's Name	<sup>a</sup> Inventor.	Shunsuke YAKUSHIJI	Date:
Inventor's Signature	* Signature:		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	*Inventor:	Ryoji OKABE	Date
Inventor's Signature	*Signature:		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇔inventor:	Hideo SAHO	Date:
Inventor's Signature	⇒Signature:		
	LEGALN	AME OF JOINT INVENTOR, IF ANY	
inventor's Name	⇒Inventor:		Date:
Inventor's Signature	~Signature:		
	LEGALN	AME OF JOINT INVENTOR, IF ANY	·
Inventor's Name	<sup>o</sup> Inventor.		Dates
Inventor's Signature	*Signature:		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
biventor's Name	*Inventor:		Date:
bwenter's Signature	*Signature:		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	*inventor;		Date:
Inventor's Signature	⇒Signature:		

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## 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		COMPRESSOR FOR AUTOMOBILE AIR CONDITIONING DEVICE
		As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:
Application not Attached	_	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:
Enter Appln. No.	_	United States Application Number or PCT International Appln. No. PCT/JP2020/008418
Enter Filing Date	_	† filed on February 28, 2020
		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 $\S$ $1.56$ .
		WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.
Insert Name of Assignee	c	WHEREAS, MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.
Insert Address of Assignee		of 2-3, Marunouchi 3-Chome, Chiyoda-ku, Tokyo 100-8332 JAPAN,
Ü		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.

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 NAME OF INVENTOR

Inventor's Name	⇒ Inventor:	Yasunori WATANABE	Date:
Inventor's Signature	: ⇒ Signature:		
	•	O/SB/14 or equivalent), including naming the entire invention inventor; or check the box below and complete the attached p	* 3
Additional	l inventors are b	eing named on the 1 supplemental sheet(s) attached hereto.	

Page 2

Attorney Docket No.

2611-0692PUS1

# SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

Inventor's Name

## ADDITIONAL INVENTOR(S) Supplemental Sheet Page $\underline{1}$ of $\underline{1}$

LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Sinventor: Takayuki HAGITA Date: Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Date: \_\_\_\_\_ September 16, '2021 Inventor's Name Shunsuke YAKUSHIJI Inventor's Signature = Signature: Thursake Jakushiji LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒Inventor: Ryoji OKABE Date: Inventor's Signature ⇒Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒Inventor: Hideo SAHO Date: Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY ⇒Inventor; Date: Inventor's Name Inventor's Signature ⇒Signature: \_\_\_ LEGAL NAME OF JOINT INVENTOR, IF ANY ⇒Inventor: Date: Inventor's Name Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇔Inventor: Date: Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY

PInventor: Date:

Inventor's Signature Signature:

BSKB-DECASSIGN\(09-12)

SN: 17/442,397 09/23/2021

### 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	4	COMPRESSOR FOR AUTOMOBILE AIR CONDITIONING DEVICE
		As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:
Application not Attached	₽	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:
Enter Appln. No.	C	United States Application Number or PCT International Appln. No. PCT/JP2020/008418
Enter Filing Date	₽	filed on February 28, 2020 .
		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.
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		WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.
Insert Name of Assignee	₽	WHEREAS, MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.
Insert Address of Assignee	=>	of 2-3, Marunouchi 3-Chome, Chiyoda-ku, Tokyo 100-8332 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	4	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.

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	⇔	Inventor:	Yasunori WATANABE	Date:
Inventor's Signatur	:e ⇒	Signature:		
			O/SB/14 or equivalent), including naming the entire inventive inventor; or check the box below and complete the attached page	
Additiona	ıl in	ventors are b	eing named on the 1 supplemental sheet(s) attached hereto.	

Page 2

# SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

### ADDITIONAL INVENTOR(5) Supplemental Sheet Page 1 of 1

## LEGAL NAME OF JOINT INVENTOR, IF ANY

Inventor's Name	⇔ Inventor	Takavuki HAGIT	X	*	Date:		
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	LEGAL N	AME OF IOINT	INVENTOR, IF ANY				
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	LSGAL N	AME OF JOINT	INVENTOR, IF ANY			September 18	3. 2021
Inventor's Name	⇔Inventor:	Ryon OKABE			Date:		
inventor's Signature	*Signature:	Rofi C	90L-				
		·					
	LEGAL N	AME OF JOINT	inventor, if any				
Incentor's Name	*Inventor:	Hideo SAHO	***		Date:	888	
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Inventor's Signature	*Signature:		***			***************************************	
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	LEGAL N	AME OF JOINT	inventor, if any				
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	LEGALN	AME OF JOINT	INVENTOR, IF ANY				
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Inventor's Name	*inventor:				Date:		* as
Imrentor's Signature	*Signature:						

BSXB-DECASSIGN\(09-12)

## 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

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Insert Address of Assignee	₽	of 2-3, Marunouchi 3-Chome, Chiyoda-ku, Tokyo 100-8332 JAPAN,				
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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	⇔	Inventor:	Yasunori WATANABE	Date:			
Inventor's Signatur	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.							
Additiona	lin	ventors are b	peing named on the 1 supplemental sheet(s) attached hereto.				

Page 2

# SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

## **ADDITIONAL INVENTOR(S)** Supplemental Sheet Page <u>1</u> of <u>1</u>

### LEGAL NAME OF JOINT INVENTOR, IF ANY

Inventor's Name	⇒ Inventor:	Takayuki HAGITA	Date: _	
Inventor's Signature	⇒ Signature:			
	LEGAL N	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	→ Inventor:	Shunsuke YAKUSHIJI	Date:	
Inventor's Signature	⇒ Signature:			
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇒Inventor:	Ryoji OKABE	Date: _	
Inventor's Signature	⇒Signature:			
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		September 16, 2021
Inventor's Name	⇒Inventor:	Hideo SAHO	Date: _	September 10, 2021
Inventor's Signature	⇔Signature:	Zideo Saho		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇒Inventor:		Date: _	
Inventor's Signature	⇒Signature:			
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇒Inventor:		Date: _	
Inventor's Signature	⇔Signature:			
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇒Inventor:		Date: _	
Inventor's Signature	⇔Signature:			
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇒Inventor:		Date: _	
Inventor's Signature	⇒Signature:			

BSKB-DECASSIGN\(09-12)

PATENT REEL: 057580 FRAME: 0014

RECORDED: 09/23/2021