PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4556536

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MASAYA HATANAKA	08/08/2017
MAKOTO TAKEUCHI	08/08/2017
KAZUHIKO INOGUCHI	08/08/2017
TAKASHI ARAI	08/08/2017
HITOMI OTSUBO	08/08/2017

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:	15551660		

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: 703-205-8000

Email:tuyen.y.ly@bskb.com, mailroom@bskb.comCorrespondent Name:BIRCH, STEWART, KOLASCH & BIRCH, LLPAddress Line 1:8110 GATEHOUSE ROAD, SUITE 100E

Address Line 4: FALLS CHURCH, VIRGINIA 22042

ATTORNEY DOCKET NUMBER:	4914-0220PUS1
NAME OF SUBMITTER:	TUYEN LY
SIGNATURE:	/tuyen ly/
DATE SIGNED:	08/18/2017

Total Attachments: 4

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> PATENT REEL: 043604 FRAME: 0513

Attorney Docket No. 4914-0220PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 * Falls Church, Virginia 22040-0747

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DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

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

Title of Invention ⇒ METHOD OF MANUFACTURING SUPERCHARGER

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113 6	DOM:	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		George Branch	1200 (10.00)	undersigned;	, Lincicus	acciaic mai.

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 Applin. No. United States Application Number of PCT International Applin. No. PCT/JP2015/055960

Enter Filing Date of filed on February 27, 2015

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.

BSKB-DECASSIGN(09-12)

Filed on 08/17/2017

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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 Fatent 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.

Inventor's Name	⇔	Inventor:	Masaya HATANAKA	Date:	August 8, 2	017
Inventor's Signature	⇔	Signature:	Masaza Hotanoha			

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.

 \boxtimes Additional inventors are being named on the 1 supplemental sheet attached hereto.

LEGAL NAME OF INVENTOR

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Attorney Docket No.

SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

LEGAL NAME OF JOINT INVENTOR, IF ANY

Inventor's Name	≈ Inventor:	Makoto TAKEUCHI	Date: August 8, 2017
Inventor's Signature	⇔ Signature:	makoto Takeuchi	
	LEGAL N.	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒ Inventor:	Kazuhiko INOGUCHI	Date: August 8, 2017
Inventor's Signature	⇔ Signature:	Kazuhiko Inoguchi	
	LEGAL N.	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇔lnventor:	Takashi ARAI	Date:
Inventor's Signature	⇔Signature:		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇔Inventor:	Hitomi OTSUBO	Date:
Inventor's Signature	⇒Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
luventor's Name	[‡] Inventor;		Date:
Inventor's Signature	⇒Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
nventor's Name	⇒Inventor:		Date:
nventor's Signature	⇔Signature:		
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nventor's Name	⇔Inventor:		Date:
nventor's Signature	⇒Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
nventor's Name	∜Inventor:		Date:
nventor's Signature	⇒Signature:		

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PATENT REEL: 043604 FRAME: 0516

Attorney Docket No.

SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Date: Inventor's Signature - Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Date: August 8, 2017 ⇔Inventor: Takashi ARAI Tapasli Avai boventor's Signature: Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Date: August 8, 2017 Finventor: Hitomi OTSUBO Inventor's Signature Signature: Wittomi Otsubo LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name †Inventor: Date: Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Playentor: Date: Invenior's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Date: Inventor's Name ⇔Inventor: hweater's Signature - Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY inventor's Name Date: ⇔Inventor: Inventor's Signature - Signature:

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PATENT REEL: 043604 FRAME: 0517

RECORDED: 08/18/2017