504149977 12/21/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4196650

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IGOR STRASHNY	12/05/2016
PAUL MOORE	12/09/2016

RECEIVING PARTY DATA

Name:	PERKINS ENGINES COMPANY LIMITED
Street Address:	EASTFIELD
City:	PETERBOROUGH, ENGLAND
State/Country:	UNITED KINGDOM
Postal Code:	PE1 5NA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15307235

CORRESPONDENCE DATA

Fax Number:

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.

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Email: mboinski@millermatthiashull.com

Correspondent Name: CATERPILLAR/ MILLER, MATTHIAS & HULL LLP

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Address Line 2: SUITE 2350

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ATTORNEY DOCKET NUMBER:	60118/50004
NAME OF SUBMITTER:	THOMAS A. MILLER
SIGNATURE:	/Thomas A. Miller/
DATE SIGNED:	12/21/2016

Total Attachments: 3

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PATENT 504149977 REEL: 041154 FRAME: 0695

IP Portal 21-December-2016 Your Ref: 14-0365 Our Ref: P166302.US.01

JOINT INVENTION (Worldwide Rights) Attorney Docket No. 60118/50004 Client Ref. No. P166302.US.01//IP Portal

ASSIGNMENT

WHEREAS We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

HEATING AND COOLING SYSTEM FOR A VEHICLE

for which We will or have filed a patent application; and

WHEREAS, Perkins Engines Company Limited, a corporation of the United Kingdom whose post office address is Eastfield, Peterborough, England, PE1 5NA, United Kingdom (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, and in and to the patent application for this invention and any and all patents to be issued upon this application throughout the world;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all patents which may be granted thereon, and all reissues thereof, as well as all rights to claim priority in any country or jurisdiction or patent office on the basis of this application, and all applications for patents which may hereafter be filed for this invention in any country or jurisdiction or patent office and all patents which may be granted on this invention in any country or jurisdiction or patent office, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request any official of any country or jurisdiction or patent office whose duty it is to issue patents on applications as described above, to issue all patents for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in any country or jurisdiction or patent office, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

AND, WE HEREBY authorize the attorneys/representatives that we have empowered to prosecute this application filed herewith.

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JOINT INVENTION (Worldwide Rights) Attorney Docket No. 60118/50004 Client Ref. No. P166302.US.01///P Portal

IN TESTIMONY WHEREOF, We have hereunto set our hands.

1. FULL NAME OF FIRST ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Igor Strashny	Tach	1
	agos / m	Dec 5, 2016
ADDRESS		CITIZENSHIP
37 Old North Road, Peterborough Cam	bridgeshire PE8 6LB, GB	-GB USA
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2. FULL NAME OF SECOND ASSIGNOR Paul Moore	ASSIGNOR'S SIGNATURE	9+h DEC 2016
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RECORDED: 12/21/2016