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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FREDRIK RAHM	01/11/2021
JENS PEDERSEN	01/11/2021
JOHAN CARLÉN ANDERSSON	01/11/2021

RECEIVING PARTY DATA

Name:	VOLVO TRUCK CORPORATION
Street Address:	405 08
City:	GÖTEBORG
State/Country:	SWEDEN

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17256498

CORRESPONDENCE DATA

Fax Number: (202)344-8300

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: ipdocketing@Venable.com, MCCoaxum@Venable.com,

VGIP.patent@venable.com

Correspondent Name: VENABLE LLP

Address Line 1: 600 MASSACHUSETTS AVENUE, NW

Address Line 4: WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	138223.532711
NAME OF SUBMITTER:	JEFFRI A. KAMINSKI
SIGNATURE:	/Jeffri A. Kaminski/
DATE SIGNED:	01/25/2021

Total Attachments: 6

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PATENT REEL: 055022 FRAME: 0227

EPAS ID: PAT6513935

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ASSIGNMENT

THIS ASSIGNMENT, by <u>Fredrik RAHM</u>, <u>Jens PEDERSEN</u> and <u>Johan CARLÉN ANDERSSON</u> (hereinafter referred to collectively as the Assignor), witnesseth:

WHEREAS, said Assignor has invented certain new and useful improvements in a: <u>AN INTERNAL COMBUSTION ENGINE</u>, set forth in an International Patent Application designating all states including the United States, which is a non-provisional application having an oath or declaration executed on even date herewith prior to filing of application, claiming priority from PCT Application No. PCT/EP2018/067546, filed June 29, 2018 and/or US Application No. 17/256,498 filed on December 28, 2020.

WHEREAS, VOLVO TRUCK CORPORATION, a Swedish corporation having a business address of 405 08, Göteborg, Sweden (hereinafter ASSIGNEE), is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, said assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, assignor's interest in the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignor, had this sale and assignment not been made.

AND for the same consideration, said assignor hereby covenants and agrees to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignor is the lawful owners of the entire right, title and interest in and to said invention and the application for Letters Patent above mentioned, and that the same is unencumbered and that said assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignor hereby covenants and agrees to and with said assignee, its successors, legal representatives and assigns, that said assignor will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

(Date) 2021-01-11	(Signature) State of the Control of
(Datc)	(Signature) Jens PEDERSEN

		Attorney Docket No. 138223.532711
(Date)	(Signature)	
1	Johan CARLÉN ANDERSSON	

ASSIGNMENT

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AND for the same consideration, said assignor hereby covenants and agrees to and with said assignee, its successors, legal representatives and assigns, that said assignor will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

(Date)	(Signature) Fredrik RAHM
(Date) 2021-01-11	(Signature) Jewy PedWzeW Jens PEDERSEN

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	No. of the control of
(Date)	(Signature) Johan CARLÉN ANDERSSON

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AND for the same consideration, said assignor hereby covenants and agrees to and with said assignee, its successors, legal representatives and assigns, that said assignor will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

(Date)	(Signature)
	Fredrik RAHM
(Date)	(Signature)
	Jens PEDERSEN

Attorney Docket No. 138223.532711

(Date) 2021-01-11 (Signature) John Calin Malann Johan CARLÉN ANDERSSON

PATENT REEL: 055022 FRAME: 0234

RECORDED: 01/25/2021