

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| VIJAI SHANKAR BHAVANI SHANKAR | 09/29/2022 |
| ARNE ANDERSON | 06/28/2022 |
| FREDRIK RAHM | 06/28/2022 |
| TOVE AUDHAV | 09/19/2022 |
| 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: | 17808144 |
| CORRESPONDENCE DATA | |
| Fax Number: | (202)344-8300 |
| <i>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.</i> | |
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| Address Line 1: | 600 MASSACHUSETTS AVENUE, NW |
| Address Line 4: | WASHINGTON, D.C. 20001 |
| ATTORNEY DOCKET NUMBER: | 138223.563519 |
| NAME OF SUBMITTER: | JEFFRI A. KAMINSKI |
| SIGNATURE: | /Jeffri A. Kaminski/ |
| DATE SIGNED: | 10/12/2022 |
| Total Attachments: 4 | |
| source=F_AssignmentSigned_BHAVANI SHANKAR#page1.tif | |
| source=F_AssignmentSigned_Andersson#page1.tif | |
| source=F_AssignmentSigned_RAHM#page1.tif | |

ASSIGNMENT

THIS ASSIGNMENT, by Vijai Shankar BHAVANI SHANKAR, Arne ANDERSSON, Fredrik RAHM, and Tove AUDHAV (hereinafter referred to collectively as the Assignors), witnesseseth:

WHEREAS, said Assignors have invented certain new and useful improvements in a: A COOLING SYSTEM, AND A METHOD OF CONTROLLING A COOLING SYSTEM, set forth in a non-provisional application filed as US Application No. 17/808,144, filed on June 22, 2022, and claiming priority to European Application No. 21182459.4, filed June 29, 2021.

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 assignors have 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, assignors' 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 assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are 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 assignors have 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 assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors 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) 29/09/22 (Signature) Vijai Shankar
Vijai Shankar BHAVANI SHANKAR

(Date) _____ (Signature) _____
Arne ANDERSSON

(Date) _____ (Signature) _____
Fredrik RAHM

(Date) _____ (Signature) _____
Tove AUDHAV

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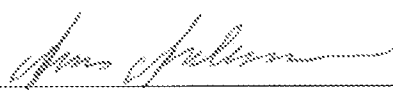
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(Date) _____

(Signature) _____

Vijai Shankar BHAVANI SHANKAR

(Date) 2022-06-22

(Signature) 

Arne ANDERSSON

(Date) _____

(Signature) _____

Fredrik RAHM

(Date) _____

(Signature) _____

Tove AUDHAV

PATENT

REEL: 061395 FRAME: 0508

ASSIGNMENT

THIS ASSIGNMENT, by Vijai Shankar BHAVANI SHANKAR, Arne ANDERSSON, Fredrik RAHM, and Tove AUDHAV (hereinafter referred to collectively as the Assignors), witnesseth:

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| (Date) _____ | (Signature) _____ Vijai Shankar BHAVANI SHANKAR |
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|--------------|-------------------------------------|
| (Date) _____ | (Signature) _____ Arne ANDERSSON |
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| (Date) <u>June 28th 2022</u> | (Signature)  _____ Fredrik RAHM |
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| | |
|--------------|----------------------------------|
| (Date) _____ | (Signature) _____ Tove AUDHAV |
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(Date) _____

(Signature) _____

Vijai Shankar BHAVANI SHANKAR

(Date) _____

(Signature) _____

Arne ANDERSSON

(Date) _____

(Signature) _____

Fredrik RAHM

(Date) 19-Sep-2022 _____

(Signature) _____

Tove AUDHAV

*Tove Audhav***PATENT****RECORDED: 10/12/2022****REEL: 061395 FRAME: 0510**