

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHIGEMI KOBAYASHI	09/01/2015
KAZUHIRO KUJIRAI	09/02/2015
MASAHIRO MISAWA	09/04/2015
TAKAFUMI AMANO	09/04/2015
YOUSUKE AOYAMA	09/01/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VOLVO TRUCK CORPORATION
<b>Street Address:</b>	C/O VOLVO BUSINESS SERVICE AB
<b>Internal Address:</b>	AVD 501842 ARHK5
<b>City:</b>	GOTEBORG
<b>State/Country:</b>	SWEDEN
<b>Postal Code:</b>	S-405 08
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14735054
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<b>ATTORNEY DOCKET NUMBER:</b>	075523-0052
<b>NAME OF SUBMITTER:</b>	SOYEON PAK (KAREN) LAUB, REG. #39,266
<b>SIGNATURE:</b>	/Soyeon Pak (Karen) Laub/
<b>DATE SIGNED:</b>	02/18/2016

**Total Attachments: 2**

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Docket No.: 075523-0052

**ASSIGNMENT**

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) Shigemi KOBAYASHI (4) Takafumi AMANO  
(2) Kazuhiro KUJIRAI (5) Yousuke AOYAMA  
(3) Masahiro MISAWA

who have made a certain new and useful invention, hereby sell, assign and transfer unto

VOLVO TRUCK CORPORATION, c/o VOLVO BUSINESS SERVICE AB,  
Avd 501842 ARHK5, S-405 08 Goteborg, Sweden

and its successors, assigns and legal representatives (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

FUEL TEMPERATURE ESTIMATION DEVICE

for which an application for United States Letters Patent was filed on June 9, 2015,  
and identified by United States Application No. 14/735,054 ;

and the undersigned hereby authorize and request the registered practitioners of McDermott Will & Emery LLP to insert the filing date and application number of said application as necessary;

and the undersigned hereby authorize and request the United States Commissioner for Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, continuations-in-part, reviews and re-examinations thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to said ASSIGNEE, for its interest as ASSIGNEE; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

and the undersigned hereby agree to transfer a like interest, to render all necessary assistance in making application for and obtaining original, extended, divisional, reissued, substituted, renewed, continued, continued-in-part, reviewed and re-examined Letters Patent of the United States, upon request of said ASSIGNEE and without further remuneration, in and to any improvements and applications for patent based thereon, growing out of or related to said invention, and to execute any papers by or for said ASSIGNEE, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS	DATE SIGNED
1) <u>Shigemi Kobayashi</u> Name: Shigemi KOBAYASHI	<u>September 1st, 2015</u>
2) <u>Kazuhiro Kujirai</u> Name: Kazuhiro KUJIRAI	<u>September 2, 2015</u>
3) <u>Masahiro Misawa</u> Name: Masahiro MISAWA	<u>September 4, 2015</u>
4) <u>Takafumi Amano</u> Name: Takafumi AMANO	<u>September 4, 2015</u>
5) <u>Yousuke Aoyama</u> Name: Yousuke AOYAMA	<u>September 1, 2015</u>