

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3740188

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAMES DAVID SEATON	01/27/2016
ALEXANDER SHUBS JR.	02/15/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ELECTRO-MOTIVE DIESEL, INC.
<b>Street Address:</b>	9301 WEST 55TH STREET
<b>City:</b>	LAGRANGE
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60525
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15044292
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)408-4400
<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>	
<b>Phone:</b>	202-408-4000
<b>Email:</b>	faxserve@finnegan.com
<b>Correspondent Name:</b>	CATERPILLAR/FINNEGAN, HENDERSON, L.L.P.
<b>Address Line 1:</b>	901 NEW YORK AVENUE, NW
<b>Address Line 4:</b>	WASHINGTON, D.C. 20001-4413
<b>ATTORNEY DOCKET NUMBER:</b>	08350.2268-00000
<b>NAME OF SUBMITTER:</b>	LAUREN BROWN
<b>SIGNATURE:</b>	/Lauren Brown/
<b>DATE SIGNED:</b>	02/16/2016
<b>Total Attachments: 4</b>	
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**ASSIGNMENT**

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

**MACHINE SYSTEM HAVING FUEL CONSUMPTION MONITORING**

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

WHEREAS, **ELECTRO-MOTIVE DIESEL, INC.**, a corporation of **DELAWARE** whose post office address is **9301 West 55th Street, LaGrange, IL 60525** (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;

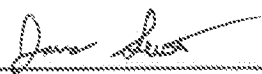
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, provisional application Serial No. \_\_\_\_\_, filed \_\_\_\_\_, 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, I/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, I/WE HEREBY further covenant and agree that I/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, I/WE HEREBY authorize the attorneys/representatives that I/WE have empowered to prosecute this application to insert here in parentheses the country, application number, and official filing date (\_\_\_\_\_, filed \_\_\_\_\_).

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR <b>James David SEATON</b>	ASSIGNOR'S SIGNATURE 	DATE <b>1/27/16</b>
ADDRESS <b>4107 N Park Street, Westmont, IL 60559</b>		CITIZENSHIP <b>USA</b>

1. WITNESS NAME	WITNESS SIGNATURE	DATE
Ola Tannous	<i>[Signature]</i>	1/27/2016
ADDRESS		CITIZENSHIP
1425 W 54 <sup>th</sup> PL, LaGrange, HighRanch, IL 60525		US
2. WITNESS NAME	WITNESS SIGNATURE	DATE
Venkata Giridhar Reddy	<i>[Signature]</i>	01/27/2016
ADDRESS		CITIZENSHIP
3012 Kentshire Circle, Naperville, IL-60564		India

2. FULL NAME OF SECOND ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Alexander SHUBS Jr.		
ADDRESS		CITIZENSHIP
2531 W Lyndale Street, Chicago, IL 60647		USA
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

**ASSIGNMENT**

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

**MACHINE SYSTEM HAVING FUEL CONSUMPTION MONITORING**

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

WHEREAS, **ELECTRO-MOTIVE DIESEL, INC.**, a corporation of **DELAWARE** whose post office address is **9301 West 55th Street, LaGrange, IL 60525** (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, provisional application Serial No. \_\_\_\_\_, filed \_\_\_\_\_, 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;

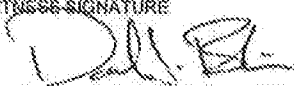
AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

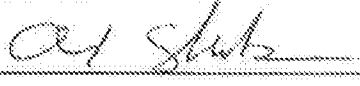
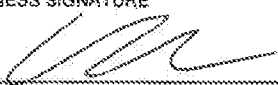
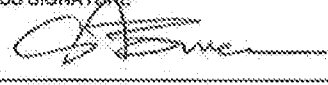
AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver 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, I/WE HEREBY authorize the attorneys/representatives that I/WE have empowered to prosecute this application to insert here in parentheses the country, application number, and official filing date (\_\_\_\_\_, filed \_\_\_\_\_).

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR <b>James David SEATON</b>	ASSIGNOR'S SIGNATURE	DATE
ADDRESS <b>4107 N Park Street, Westmont, IL 60559</b>		CITIZENSHIP <b>USA</b>

1. WITNESS NAME <b>DAVID J. BABINEC</b>	WITNESS SIGNATURE 	DATE <b>15 FEB 2016</b>
ADDRESS <b>1237 CHATHAM DRIVE LEMONT, IL 60439</b>		CITIZENSHIP <b>USA</b>
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. FULL NAME OF SECOND ASSIGNOR <b>Alexander SHUBS Jr.</b>	ASSIGNOR'S SIGNATURE 	DATE <b>2-15-2016</b>
ADDRESS <b>2531 W Lyndale Street, Chicago, IL 60647</b>		CITIZENSHIP <b>USA</b>
1. WITNESS NAME <b>Oliver Perri</b>	WITNESS SIGNATURE 	DATE <b>2-15-2016</b>
ADDRESS <b>925 W. HURON APT 424 Chicago IL 60642</b>		CITIZENSHIP <b>US</b>
2. WITNESS NAME <b>Curtis A. Swenson</b>	WITNESS SIGNATURE 	DATE <b>2-15-16</b>
ADDRESS <b>95680 William Drive Burr Ridge IL 60527</b>		CITIZENSHIP <b>USA</b>