

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>ALEXANDER SHUBS JR.</td> <td>08/28/2013</td> </tr> <tr> <td>FRANCIS VOGEL</td> <td>08/28/2013</td> </tr> </tbody> </table>		Name	Execution Date	ALEXANDER SHUBS JR.	08/28/2013	FRANCIS VOGEL	08/28/2013				
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ALEXANDER SHUBS JR.	08/28/2013										
FRANCIS VOGEL	08/28/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>ELECTRO-MOTIVE DIESEL, INC.</td> </tr> <tr> <td>Street Address:</td> <td>9301 West 55th Street</td> </tr> <tr> <td>City:</td> <td>LaGrange</td> </tr> <tr> <td>State/Country:</td> <td>ILLINOIS</td> </tr> <tr> <td>Postal Code:</td> <td>60525</td> </tr> </table>		Name:	ELECTRO-MOTIVE DIESEL, INC.	Street Address:	9301 West 55th Street	City:	LaGrange	State/Country:	ILLINOIS	Postal Code:	60525
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: 2024084400 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 2024084000 Email: faxserve@finnegan.com Correspondent Name: CATERPILLAR/FINNEGAN, HENDERSON, L.L.P. Address Line 1: 901 NEW YORK AVENUE, NW Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20001-4413</p>											
ATTORNEY DOCKET NUMBER:	08350.1173-00000										
NAME OF SUBMITTER:	Abhay Watwe										
Signature:	/Abhay Watwe/										
Date:	08/29/2013										

OP \$40.00 14013054

Total Attachments: 4

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ASSIGNMENT

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

SAND MONITORING AND CONTROL SYSTEM FOR A MACHINE

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

WHEREAS, **Electro-Motive Diesel, Inc.**, 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;

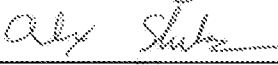
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, 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;

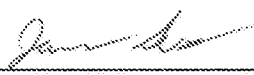
AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

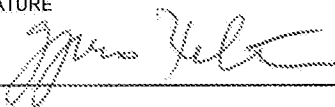
AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver 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 Assignee or the attorneys/representatives of Assignee to insert here in parentheses the country, application number, and official filing date (USA Application No. 14/013,054 filed 08/29/2013).

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

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Alexander SHUBS Jr.	ASSIGNOR'S SIGNATURE 	DATE 08-28-2013
ADDRESS 2531 W Lyndale Street, Unit 1, Chicago, IL 60647		CITIZENSHIP USA

1. WITNESS NAME <i>James Seaton</i>	WITNESS SIGNATURE 	DATE <i>8/28/13</i>
ADDRESS <i>4107 N Park St, Westmont, IL 60559</i>		CITIZENSHIP <i>USA</i>

2. WITNESS NAME <i>USENO PETRAS</i>	WITNESS SIGNATURE 	DATE <i>28 Aug 2013</i>
ADDRESS <i>152 St Francis Oak Brook</i>		CITIZENSHIP <i>USA</i>

2. FULL NAME OF SECOND ASSIGNOR, IF ANY Francis VOGELS	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 87 Sandpiper Way N.W., Calgary, Alberta T3K-3P8		CITIZENSHIP Canada

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:

SAND MONITORING AND CONTROL SYSTEM FOR A MACHINE

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

WHEREAS, **Electro-Motive Diesel, Inc.**, 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, 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;

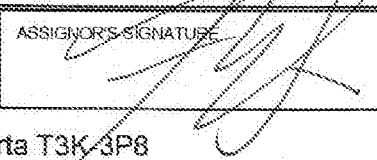
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1. FULL NAME OF SOLE OR FIRST ASSIGNOR Alexander SHUBS Jr.	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 2531 W Lyndale Street, Unit 1, Chicago, IL 60647		CITIZENSHIP USA

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. FULL NAME OF SECOND ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
Francis VOGELS		8/28/13
ADDRESS		CITIZENSHIP
87 Sandpiper Way N.W., Calgary, Alberta T3K 3P8		Canada

1. WITNESS NAME	WITNESS SIGNATURE	DATE
WARREN BJORNSON		8/28/13
ADDRESS		CITIZENSHIP
RR #1 NEW NORWAY ALBERTA T0B 3L0		CANADIAN,

2. WITNESS NAME	WITNESS SIGNATURE	DATE
GEOFFREY MORGAN		28/8/13
ADDRESS		CITIZENSHIP
1/3 SIBLEY ST NORTH LAKES OLD 4509		AUSTRALIAN
AUSTRALIA		