

## 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>Donald J. ARNDT</td> <td>12/07/2012</td> </tr> <tr> <td>Mark J. BARTONEK</td> <td>12/07/2012</td> </tr> </tbody> </table>  |  | Name          | Execution Date                     | Donald J. ARNDT     | 12/07/2012          | Mark J. BARTONEK | 12/07/2012 |                |         |              |       |
| Name   | Execution Date                         |               |                                    |                     |                     |                  |            |                |         |              |       |
| Donald J. ARNDT  | 12/07/2012                             |               |                                    |                     |                     |                  |            |                |         |              |       |
| Mark J. BARTONEK   | 12/07/2012                             |               |                                    |                     |                     |                  |            |                |         |              |       |
| RECEIVING PARTY DATA   |  |               |                                    |                     |                     |                  |            |                |         |              |       |
| <table border="1"> <tr> <td>Name:</td> <td>Progress Rail Services Corporation</td> </tr> <tr> <td>Street Address:</td> <td>1600 Progress Drive</td> </tr> <tr> <td>City:</td> <td>Alberville</td> </tr> <tr> <td>State/Country:</td> <td>ALABAMA</td> </tr> <tr> <td>Postal Code:</td> <td>35950</td> </tr> </table> |  | Name:         | Progress Rail Services Corporation | Street Address:     | 1600 Progress Drive | City:            | Alberville | State/Country: | ALABAMA | Postal Code: | 35950 |
| Name:  | Progress Rail Services Corporation     |               |                                    |                     |                     |                  |            |                |         |              |       |
| Street Address:  | 1600 Progress Drive                    |               |                                    |                     |                     |                  |            |                |         |              |       |
| City:  | Alberville                             |               |                                    |                     |                     |                  |            |                |         |              |       |
| State/Country:   | ALABAMA                                |               |                                    |                     |                     |                  |            |                |         |              |       |
| Postal Code:   | 35950                                  |               |                                    |                     |                     |                  |            |                |         |              |       |
| PROPERTY NUMBERS Total: 1  |  |               |                                    |                     |                     |                  |            |                |         |              |       |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13719445</td> </tr> </tbody> </table>  |  | Property Type | Number                             | Application Number: | 13719445            |                  |            |                |         |              |       |
| Property Type  | Number                                 |               |                                    |                     |                     |                  |            |                |         |              |       |
| Application Number:  | 13719445                               |               |                                    |                     |                     |                  |            |                |         |              |       |
| CORRESPONDENCE DATA  |  |               |                                    |                     |                     |                  |            |                |         |              |       |
| Fax Number:  | 2024084400                             |               |                                    |                     |                     |                  |            |                |         |              |       |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>   |  |               |                                    |                     |                     |                  |            |                |         |              |       |
| Email:   | dena.bohannon@finnegan.com             |               |                                    |                     |                     |                  |            |                |         |              |       |
| Correspondent Name:  | FINNEGAN, HENDERSON                    |               |                                    |                     |                     |                  |            |                |         |              |       |
| Address Line 1:  | 901 New York Avenue, NW                |               |                                    |                     |                     |                  |            |                |         |              |       |
| Address Line 4:  | Washington, DISTRICT OF COLUMBIA 20001 |               |                                    |                     |                     |                  |            |                |         |              |       |
| ATTORNEY DOCKET NUMBER:  | 08350.0751                             |               |                                    |                     |                     |                  |            |                |         |              |       |
| NAME OF SUBMITTER:   | William O. Trousdell                   |               |                                    |                     |                     |                  |            |                |         |              |       |
| Total Attachments: 3<br>source=083500751Assignment#page1.tif<br>source=083500751Assignment#page2.tif<br>source=083500751Assignment#page3.tif   |  |               |                                    |                     |                     |                  |            |                |         |              |       |

OP \$40.00 13719445

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 08350.0751

**To the Director of the U.S. Patent and Trademark Office:  
Please record the attached original documents or copy thereof.**

**Mail Stop Assignment Recordation Services**

|  |   |  |                 |                   |
|--|---|--|-----------------|-------------------|
| 1. Name of conveying party(ies):<br>Donald J. Arndt<br>Mark. J. Bartonek   |   | 2. Name and address of receiving party(ies):<br>Name: Progress Rail Services Corporation   |                 |                   |
| Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |   | Internal Address:  |                 |                   |
| 3. Nature of conveyance:   |   | Street Address: 1600 Progress Drive  |                 |                   |
| <input checked="" type="checkbox"/> Assignment   | <input type="checkbox"/> Merger                         | City: Albertville  |                 |                   |
| <input type="checkbox"/> Security Agreement  | <input type="checkbox"/> Change of Name                 | State: Alabama   | Zip Code: 35950 |                   |
| <input type="checkbox"/> Joint Research Agreement  | <input type="checkbox"/> Government Interest Assignment | Additional name(s) & Address(es) attached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |                 |                   |
| <input type="checkbox"/> Executive Order 9424, Confirmatory License  | <input type="checkbox"/> Other:                         |  |                 |                   |
| Execution Date: December 7, 2012   |   |  |                 |                   |
| 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: December 7, 2012 |   |  |                 |                   |
| A. Patent Application Number(s):<br><br>13/719,445   |   | B. Patent Number(s):<br><br>[Text]   |                 |                   |
| Additional numbers attached?   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |                 |                   |
| 5. Name and address of party to whom correspondence concerning document should be mailed:  |   | 6. Total number of applications and patents involved:<br>1   |                 |                   |
| Name: William O. Trousdell (202) 408-4000  |   | 7. Total fee (37 CFR 1.21(h) and 3.41): \$40<br><br><input checked="" type="checkbox"/> Enclosed (Please charge deficiency or credit overpayment to deposit account 06-0916)<br><br><input type="checkbox"/> Authorized to be charged to deposit account |                 |                   |
| Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.   |   |  |                 |                   |
| Street Address: 901 New York Avenue, N.W.  |   |  |                 |                   |
| City: Washington, D.C.   |   |  |                 |                   |
| State:   | Zip: 20001-4413   | 8. Deposit Account No.: <u>06-0916</u>   |                 |                   |
| 9. Statement and signature.  |   |  |                 |                   |
| To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.                   |   |  |                 |                   |
| Signed: _____  |   | /William O. Trousdell/   |                 | December 19, 2012 |
|  |   | William O. Trousdell   |                 | Date              |
| Total number of pages including cover sheet, attachments and documents: 3  |   |  |                 |                   |

6/2007

**ASSIGNMENT**

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

**TEMPERATURE DETECTOR HAVING DIFFERENT TYPES OF INDEPENDENT SENSORS**

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

WHEREAS, **Progress Rail Services Corporation**, a corporation of **Alabama** whose post office address is **1600 Progress Drive, Albertville, Alabama 35950** (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;

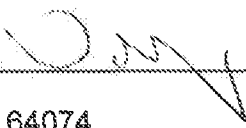
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our 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 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, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to 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, WE HEREBY authorize Assignee or the attorneys/representatives of Assignee to insert here in parentheses the country, application number, and official filing date ( US Application No. 13/719,445 filed 12-19-12 ).

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

|   |   |                   |
|---|---|-------------------|
| 1. FULL NAME OF SOLE OR FIRST ASSIGNOR<br>DONALD J. ARNDT | ASSIGNOR'S SIGNATURE<br> | DATE<br>12/7/12   |
| ADDRESS<br>440 Old Santa Fe Trail, Napoleon, MO 64074     |   | CITIZENSHIP<br>US |
|   |   |                   |

|   |  |                          |
|---|--|--------------------------|
| 1. WITNESS NAME<br><i>Tressie Pruett</i>                                  | WITNESS SIGNATURE<br><i>Tressie Pruett</i> | DATE<br><i>12/7/2012</i> |
| ADDRESS<br><i>19400 E. 37th Terrace Ct. S.<br/>Independence, MO 64057</i> |  | CITIZENSHIP<br><i>US</i> |

|  |   |                           |
|--|---|---------------------------|
| 2. WITNESS NAME<br><i>Mary E. Webb</i>                     | WITNESS SIGNATURE<br><i>Mary E Webb</i> | DATE<br><i>12/7/12</i>    |
| ADDRESS<br><i>318 E College St. Independence, MO 64050</i> |   | CITIZENSHIP<br><i>USA</i> |

|  |   |                          |
|--|---|--------------------------|
| 2. FULL NAME OF SECOND ASSIGNOR, IF ANY<br><i>MARK J. BARTONEK</i> | ASSIGNOR'S SIGNATURE<br><i>Mark J. Bartonek</i> | DATE<br><i>12-7-12</i>   |
| ADDRESS<br><i>17305 E 54th Terr. Court South, Inchep, MO 64055</i> |   | CITIZENSHIP<br><i>US</i> |

|   |  |                          |
|---|--|--------------------------|
| 1. WITNESS NAME<br><i>Tressie Pruett</i>                                  | WITNESS SIGNATURE<br><i>Tressie Pruett</i> | DATE<br><i>12/7/2012</i> |
| ADDRESS<br><i>19400 E. 37th Terrace Ct. S.<br/>Independence, MO 64057</i> |  | CITIZENSHIP<br><i>US</i> |

|   |   |                           |
|---|---|---------------------------|
| 2. WITNESS NAME<br><i>Mary E. Webb</i>                      | WITNESS SIGNATURE<br><i>Mary E Webb</i> | DATE<br><i>12/7/12</i>    |
| ADDRESS<br><i>318 E. College St. Independence, MO 64050</i> |   | CITIZENSHIP<br><i>USA</i> |