

## PATENT ASSIGNMENT COVER SHEET

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| 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 R FAULKNER</td> <td>05/02/2011</td> </tr> <tr> <td>WILLIAM B THOMPSON</td> <td>05/03/2011</td> </tr> <tr> <td>PATRICK E KEISTER</td> <td>05/12/2011</td> </tr> <tr> <td>ERIC C MARTIN</td> <td>05/16/2011</td> </tr> <tr> <td>CHARLES W MURRAY</td> <td>05/16/2011</td> </tr> </tbody> </table> |                        | Name          | Execution Date   | DONALD R FAULKNER   | 05/02/2011             | WILLIAM B THOMPSON | 05/03/2011 | PATRICK E KEISTER | 05/12/2011 | ERIC C MARTIN | 05/16/2011 | CHARLES W MURRAY | 05/16/2011 |
| Name   | Execution Date         |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| DONALD R FAULKNER  | 05/02/2011             |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| WILLIAM B THOMPSON   | 05/03/2011             |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| PATRICK E KEISTER  | 05/12/2011             |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| ERIC C MARTIN  | 05/16/2011             |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| CHARLES W MURRAY   | 05/16/2011             |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| RECEIVING PARTY DATA   |                        |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| <table border="1"> <tr> <td>Name:</td> <td>NORFOLK SOUTHERN</td> </tr> <tr> <td>Street Address:</td> <td>THREE COMMERCIAL PLACE</td> </tr> <tr> <td>City:</td> <td>NORFOLK</td> </tr> <tr> <td>State/Country:</td> <td>VIRGINIA</td> </tr> <tr> <td>Postal Code:</td> <td>23510-9241</td> </tr> </table>   |                        | Name:         | NORFOLK SOUTHERN | Street Address:     | THREE COMMERCIAL PLACE | City:              | NORFOLK    | State/Country:    | VIRGINIA   | Postal Code:  | 23510-9241 |                  |            |
| Name:  | NORFOLK SOUTHERN       |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| Street Address:  | THREE COMMERCIAL PLACE |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| City:  | NORFOLK                |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| State/Country:   | VIRGINIA               |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| Postal Code:   | 23510-9241             |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| 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>14073045</td> </tr> </tbody> </table>  |                        | Property Type | Number           | Application Number: | 14073045               |                    |            |                   |            |               |            |                  |            |
| Property Type  | Number                 |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| Application Number:  | 14073045               |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| CORRESPONDENCE DATA  |                        |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| <p>Fax Number: (202)346-4444<br/>         Phone: 202-346-4000<br/>         Email: fmckeon@goodwinprocter.com<br/> <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i><br/>         Correspondent Name: CHARLES LI<br/>         Address Line 1: 901 NEW YORK AVENUE NW<br/>         Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20001</p>                             |                        |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| ATTORNEY DOCKET NUMBER:  | NOR-008C1              |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |
| NAME OF SUBMITTER:   | CE (CHARLES) LI        |               |                  |                     |                        |                    |            |                   |            |               |            |                  |            |

|   |                   |
|---|-------------------|
| Signature:  | /Ce (Charles) Li/ |
| Date:   | 11/08/2013        |
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WHEREAS, **Donald R. Faulkner**, a United States citizen residing at 326 Deer Run Rd, Hollidaysburg, PA 16648; **William B. Thompson**, a United States citizen residing at 295 Upper Claar Rd., Claysburg, PA 16625; **Patrick E. Keister**, a United States citizen residing at 234 Cameron Drive, Vinton, VA 24179; **Eric C. Martin**, a United States citizen residing at 7312 Lawrence Ln, SW, Roanoke, VA 24018; and **Charles W. Murray**, a United States citizen residing at 2070 Green Level Rd., Boones Mill, VA 24065 (collectively "Assignors"), have invented certain improvements in a

### **SPLIT COOLING METHOD AND APPARATUS**

for which an application for United States Letters Patent was filed on **March 17, 2011**, and assigned Ser. No. **13/050,256**; and

WHEREAS, Norfolk Southern ("Assignee"), a Virginia Corporation and having a principal place of business at Three Commercial Place, Norfolk, VA 23510-9241, is desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefrom.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignors hereby sell, assign and set over to said Assignee the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefrom in the United States and all other countries, including all rights associated with any previous provisional application upon which the above-identified application is based on and to which it asserts priority, and including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said Assignee herein, as Assignee of said interest therein; and the undersigned for ourselves and our

legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said Assignee or its assigns, to communicate to said Assignee or its representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist Assignee, its successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said Assignee.

5-2-2011  
Date

  
\_\_\_\_\_  
Donald R. Faulkner

5-3-11

Date

*William B. Thompson*

William B. Thompson

5-12-2011

Date

A handwritten signature in black ink, appearing to read "Patrick E. Keister", written over a horizontal line.

Patrick E. Keister

5/16/11  
Date

Eric C. Martin  
Eric C. Martin

5/16/11  
Date

Charles W. Murray  
Charles W. Murray