

## 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>
HAYDEN W. NEWELL	03/21/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NORFOLK SOUTHERN CORPORATION
<b>Street Address:</b>	3 COMMERCIAL PLACE
<b>City:</b>	NORFOLK
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	23510
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14178873
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	NOR-005-D1
<b>NAME OF SUBMITTER:</b>	CE LI
<b>SIGNATURE:</b>	/Ce Li/
<b>DATE SIGNED:</b>	10/02/2014
<b>Total Attachments: 2</b>	
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ATTORNEY DOCKET NO.: NOR-005 (124898/198028)

## ASSIGNMENT

WHEREAS, I/We, **Hayden W. Newell**, residing at **8793 Wild Turkey Road, Boones Mill, VA 24065-1831**, have invented certain new and useful improvements in and to the subject matter of:

### IMPROVED RAILROAD SPIKES AND METHODS OF MAKING THE SAME

described in an application for United States Letters Patent, filed on March 23, 2011, and accorded Application No. 13/069,883

AND, WHEREAS, **Norfolk Southern Corporation**, organized under the laws of the Commonwealth of Virginia, having a place of business located at **3 Commercial Place, Norfolk, Virginia 23510, USA** (hereinafter "ASSIGNEE"), is desirous of acquiring certain rights to the improvements and under the application;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration, receipt of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said improvements, said United States application, any other United States applications, including provisional, divisional, renewal, substitute, continuation, reexamination and reissue applications, based in whole or in part on said United States application or in whole or in part on said improvements, any foreign applications, including international and regional applications, based in whole or in part on any of the aforesaid United States applications or in whole or in part on said improvements, and in and to any and all letters patent, including extensions thereof, of any country which have been or may be granted on any of the aforesaid applications or on said improvements or any parts thereof;

AND WE hereby authorize and request our agents, Goodwin Procter LLP, whose address is 901 New York Ave., N.W.; Washington, DC 20001, to insert hereon any identification necessary or desirable for recordation of this document, including the filing date and application number of said application when known.

AND WE hereby agree for ourselves and our heirs, executors and administrators to execute without further consideration any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-referenced application or in the preparation or prosecution of any continuing, substitute, divisional, renewal, reexamination or reissue application or in any amendments, extensions or interference proceedings, or other applications for patents of any region or country, that may be necessary to secure to ASSIGNEE its interest and title in and to said improvements or any parts thereof, and in and to said several patents or any of them;

