

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>SEQUENCE:</b>	123
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HARK BRAREN	08/26/2020
ERIK FROHBERG	08/26/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BNSF RAILWAY COMPANY
<b>Street Address:</b>	2500 LOU MENK DRIVE, AOB-3
<b>City:</b>	FORT WORTH
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	76131
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	18358802
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(817)878-0501
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<b>Phone:</b>	8178780545
<b>Email:</b>	ers-pat@whitakerchalk.com
<b>Correspondent Name:</b>	ENRIQUE SANCHEZ, JR.
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<b>Address Line 4:</b>	FORT WORTH, TEXAS 76102
<b>ATTORNEY DOCKET NUMBER:</b>	BNSF-00075CON1
<b>NAME OF SUBMITTER:</b>	ENRIQUE SANCHEZ, JR.
<b>SIGNATURE:</b>	/Enrique Sanchez, Jr./
<b>DATE SIGNED:</b>	07/26/2023
<b>Total Attachments: 4</b>	
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## PATENT ASSIGNMENT

WHEREAS, I, **Hark Braren**, have invented certain new and useful improvements disclosed in an application for United States Letters Patent, identified as:

Title of Application: **APPARATUS AND METHOD FOR WEAR DETECTION OF RAILROAD  
VEHICLE WHEELS**

U.S. Application No.: \_\_\_\_\_

Filing Date: \_\_\_\_\_

WHEREAS, **BNSF Railway Company**, (hereinafter referred to as "Assignee"), a State of Delaware corporation, with an address of 2500 Lou Menk Drive, Fort Worth, Texas 76131, desires to acquire my entire right, title, and interest in and to the invention, and in and to the application and any Letters Patent that may issue thereon;

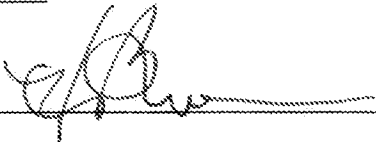
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I agree to assign and hereby assign to Assignee, all right, title, and interest in and to the invention and in and to the application and all patents which may be granted therefor, and all future applications throughout the world that may claim priority to said application, including but not limited to divisions, reexaminations, reissues, continuations, continuations-in-part, and extensions thereof, and all rights and remedies associated therewith including the right to sue for and recover past damages and to recover under 35 U.S.C. § 154 (d), or any other law permitting remedies for infringement prior to issuance of the patent; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to Assignee. I also agree to assign and hereby assign to Assignee, all right, title, and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models, and designs for said invention in its own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title, and interest in Assignee.

AND I HEREBY covenant and agree that I will communicate to Assignee any facts known to us respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue, and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries. I authorize Assignee's representative to fill in the foregoing blanks for the application number and the filing date once that information becomes

known. This Assignment shall be binding on the parties' successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, I hereunto set my hand this 26 day of August, 2020.

Inventor Signature: \_\_\_\_\_

  
**Hark Braren**  
**3608 S. Bay Breeze Ln**  
**Fort Worth, Texas 76719**

## PATENT ASSIGNMENT

WHEREAS, I, **Erik Froberg**, have invented certain new and useful improvements disclosed in an application for United States Letters Patent, identified as:

Title of Application: **APPARATUS AND METHOD FOR WEAR DETECTION OF RAILROAD  
VEHICLE WHEELS**

U.S. Application No.: \_\_\_\_\_

Filing Date: \_\_\_\_\_

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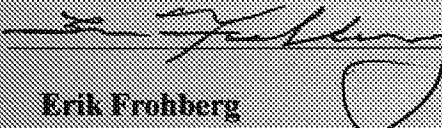
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I agree to assign and hereby assign to Assignee, all right, title, and interest in and to the invention and in and to the application and all patents which may be granted therefor, and all future applications throughout the world that may claim priority to said application, including but not limited to divisions, reexaminations, reissues, continuations, continuations-in-part, and extensions thereof, and all rights and remedies associated therewith including the right to sue for and recover past damages and to recover under 35 U.S.C. § 154 (d), or any other law permitting remedies for infringement prior to issuance of the patent; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to Assignee. I also agree to assign and hereby assign to Assignee, all right, title, and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models, and designs for said invention in its own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries, and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title, and interest in Assignee.

AND I HEREBY covenant and agree that I will communicate to Assignee any facts known to us respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue, and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries. I authorize Assignee's representative to fill in the foregoing blanks for the application number and the filing date once that information becomes

known. This Assignment shall be binding on the parties' successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, I hereunto set my hand this 26 day of AUGUST, 2020.

Inventor Signature: \_\_\_\_\_

  
**Erik Frohberg**  
305 Foxcroft Ln  
Keller, Texas 76248