

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5411799

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
REBECCA W. DREASHER	12/17/2018
STEPHEN CRAVEN	12/19/2018
MATTHEW STEVEN VRBA	12/17/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION
<b>Street Address:</b>	1001 AIR BRAKE AVENUE
<b>City:</b>	WILMERDING
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	15148
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16220959
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(412)471-4094
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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<b>Address Line 4:</b>	PITTSBURGH, PENNSYLVANIA 15222
<b>ATTORNEY DOCKET NUMBER:</b>	4293-1804417
<b>NAME OF SUBMITTER:</b>	RICHARD L. BYRNE, REG. NO. 28,498
<b>SIGNATURE:</b>	/richard l. byrne/
<b>DATE SIGNED:</b>	03/08/2019
<b>Total Attachments: 5</b>	
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**ASSIGNMENT**

WHEREAS, as a below named inventor, I have invented certain new and useful improvements in

SECURE LOCOMOTIVE TO LOCOMOTIVE PTC COMMUNICATION

(Invention Title)

☐ for which a United States Provisional Patent application was filed on \_\_\_\_\_ (mm/dd/yyyy) and bears Application Number \_\_\_\_\_ (hereinafter "said application").

AND/OR

☐ for which I have this day executed an application for a United States Patent (hereinafter "said application").

AND/OR

☒ for which an application for a United States Patent was filed on 12/14/2018 (mm/dd/yyyy) and bears Application Number 16/220,959 (hereinafter "said application").

AND/OR

☐ for which an international patent application was filed under the Patent Cooperation Treaty on \_\_\_\_\_ (mm/dd/yyyy), bearing Application No. \_\_\_\_\_ (hereinafter "said application").

AND, WHEREAS, WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, a corporation of Delaware, having a place of business at 1001 Air Brake Avenue, Wilmerding, PA 15148, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged, I as the inventor or as one of the inventors, hereinafter the assignor(s), do hereby assign, sell and transfer unto said assignee the full and exclusive right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries, including rights of priority under the International Convention of Paris (1883) as amended, and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisionals, non-provisionals, reissues, continuations, continuations-in-part, renewals and/or extensions thereof. Such assignment extends to the full ends of the terms of these applications and patents as fully and entirely as the same would have been held and enjoyed by me had this Assignment not been made.

I covenant that I am the lawful owner(s) of said application, inventions and improvements, that the same are unencumbered, that no license has been granted to make, use or vend the said inventions or improvements or any of them, and that I have the full right to make this Assignment.

And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request but without expense to me,

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testify in any legal proceedings, sign all lawful papers, execute all divisional, non-provisional reissue, continuation, continuation-in-part, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said assignee or by counsel for said assignee to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This Assignment shall be binding upon my heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors and/or assigns, as the case may be, of said assignee.

1. FULL NAME OF ASSIGNOR:

RESIDENCE:

Rebecca W. Dreasher

Longmont, CO

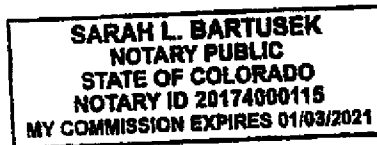
EXECUTED this 17<sup>th</sup> day of December, 2018

*Rebecca W. Dreasher*  
SIGNATURE

WITNESS:

*Sarah L. Bartusek*

Name:



☒ Checked Box indicates 3 additional pages.

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2. FULL NAME OF ASSIGNOR:  
Stephen Craven

RESIDENCE:  
Hiawatha, IA

EXECUTED this 19 day of December, 2018

Stephen Craven  
SIGNATURE

WITNESS:

Wicki Rocho

Name:

Application No. 16/220,959

Attorney Docket No. 4293-1804417

3. FULL NAME OF ASSIGNOR:  
Matthew Steven Vrba

RESIDENCE:  
Marion, IA

EXECUTED this 17 day of December, 2018

Matthew S. Vrba  
SIGNATURE

WITNESS:

Wesley Rocho

Name:

Application No. 16/220,959

Attorney Docket No. 4293-1804417

Acknowledgement of this Assignment is made by/on behalf of the Assignee:

NAME OF ASSIGNEE:

PLACE OF BUSINESS:

WESTINGHOUSE AIR BRAKE  
TECHNOLOGIES CORPORATION

Wilmerding, PA

EXECUTED this 7 day of February, 2019


  
SIGNATURE

Name: David M. Seitz

Title: Vice President

and Senior Counsel

WITNESS:

  
Name: ERIN BOTS QUINN