

## 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>
	GARY A. TUBERGEN	12/06/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION	
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<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:	15834970
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(412)471-4094	
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<b>ATTORNEY DOCKET NUMBER:</b>	4293-1709362	
<b>NAME OF SUBMITTER:</b>	RICHARD L. BYRNE, REG. NO. 28,498	
<b>SIGNATURE:</b>	/Richard L. Byrne/	
<b>DATE SIGNED:</b>	12/20/2017	
<b>Total Attachments: 3</b>		
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Application No. 15/834,970

Attorney Docket No. 4293-1709362

**ASSIGNMENT**

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

**METHOD TO DETERMINE CLEARANCE OF A TRACK OBSTACLE USING GPS  
DEVICES**

(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 \_\_\_\_\_ (mm/dd/yyyy) and bears Application Number \_\_\_\_\_ (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 hereby authorize and request any attorney associated with The Webb Law Firm, Customer No. 28289, to insert here in parentheses (Application No. 15/834,970 filed 12/7/2017) the filing date and application number of said application when known.

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

Application No. 15/834,970

Attorney Docket No. 4293-1709362

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, 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:

Gary A. Tubergen

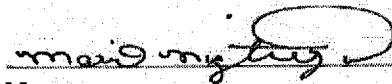
RESIDENCE:

Frederick, MD

EXECUTED this 6 day of December, 2017

  
SIGNATURE

WITNESS:



Name:

☒ Checked Box indicates \_\_\_\_ additional page(s).

Page 2 of 3

Application No. 15/834,970  
Attorney Docket No. 4293-1709362

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

NAME OF ASSIGNEE:  
WESTINGHOUSE AIR BRAKE  
TECHNOLOGIES CORPORATION

PLACE OF BUSINESS:  
Wilmerding, PA

EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2017

\_\_\_\_\_  
SIGNATURE

Name:  
Title:

WITNESS:

\_\_\_\_\_  
Name: