

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6368645

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BRIAN JAMES LANGSTRAAT	09/28/2020
CRAIG WILLARD VANDEVENTER	08/04/2020
FRANK J. SWIDERSKI	08/06/2020
KEITH EDWARD SMITH	08/05/2020
RECEIVING PARTY DATA	
Name:	WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION
Street Address:	1001 AIR BRAKE AVENUE
City:	WILMERDING
State/Country:	PENNSYLVANIA
Postal Code:	15148
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16870140
CORRESPONDENCE DATA	
Fax Number:	(314)584-4062
<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>	
Phone:	3145844080
Email:	mpostell@splglaw.com
Correspondent Name:	THE SMALL PATENT LAW GROUP LLC
Address Line 1:	225 S. MERAMEC AVE, SUITE 725
Address Line 4:	ST. LOUIS, MISSOURI 63105
ATTORNEY DOCKET NUMBER:	WABP12816USCIP2 552-822US
NAME OF SUBMITTER:	CHRISTOPHER R. CARROLL
SIGNATURE:	/Christopher R. Carroll/
DATE SIGNED:	10/26/2020
Total Attachments: 7	
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PATENT

REEL: 054168 FRAME: 0914

**COMBINED DECLARATION AND GLOBAL ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

As the below named inventor(s), I/we hereby declare that this declaration and assignment are directed to:

VEHICLE NAVIGATION SYSTEM

- ☐ the specification of which is attached hereto OR
- ☒ United States application or PCT international application number 16/870,140 filed on 08-May-2020, as amended on [date] (if applicable). (I hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known.)

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable by fine or imprisonment, or both. If in the United States, the relevant statute is 18 USC § 1001 and imprisonment is for not more than five (5) years.

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the filing date of the continuation-in-part application. If in the United States such information is as defined in 37 CFR § 1.56.

In accordance with my obligation(s) under an Employee Innovation and Proprietary Information Agreement or (as applicable) arising out of other agreements (such as, but not limited to, a Services Agreement between Wabtec Corporation or one of its subsidiaries such as Westinghouse Air Brake Technologies Corporation (collectively “Wabtec”) and your employer), and/or for other good and valuable consideration of which I acknowledge receipt, I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Brian	James	Langstraat	of	Cedar Rapids	IA	US
Craig	Willard	Vandeventer	of	Cedar Rapids	IA	US
Frank	J.	Swiderski	of	Cedar Rapids	IA	US
Keith	Edward	Smith	of	Cedar Rapids	IA	US

hereby sell and assign to:

Name of Company:	<i>Westinghouse Air Brake Technologies Corporation</i>
Entity Type (optional):	<i>Delaware Limited Liability Company</i>
Address:	<i>1001 Air Brake Avenue, Wilmerding, Pennsylvania, 06851 USA</i>

herein referred to as “Company,” its successors and assigns my entire respective rights, titles and interests in and to the invention and improvements made or conceived by me described in the application(s) listed above and in the following table (collectively the “Invention”):

Country of Filing	Type of Filing	Application Number	Filing Date	Title
US	International	PCT/US18/59787	2019-05-16	Method and Process for Automatically Calibrating a System to Determine the Heading of a Vehicle
US	Provisional	62/583,623	2017-11-09	Method and Process for Automatically Calibrating a System to Determine the Heading of a Vehicle

(I hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations, renewals, and reissues thereof, and all rights of priority resulting from the filing of the application(s), and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom to the Company, or its successors or assigns, and agree that on request and without further consideration, I will communicate to the Company or its representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, *inter partes* review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from any country's law on employee Invention or service Invention, or any other respective country law are addressed as follows:

- I acknowledge and understand that the rights to the Invention belong to Wabtec Corporation, or its subsidiary/designee.
- I acknowledge and agree that the Invention(s) were created in the normal course of my duties (sometimes referred to as *Inventions de mission attribuables*).
- I acknowledge and agree that my accepting the remuneration award associated with this declaration and assignment document is a full, fair and sufficient accounting of the currently known value, and this value is paid prior to the commercial exploitation of the Invention.
- To the extent allowed, I waive any right to future compensation in exchange for the present value of the remuneration award.
- I acknowledge and agree that I am unaware of any exceptional circumstances regarding the Invention.
- I acknowledge and agree that Wabtec's resources, support and knowledge were used in the creation of the Invention at the direction of Wabtec.
- I acknowledge and understand that Wabtec timely claims rights to the Invention.
- I acknowledge that collective labor agreements and/or local regulations may affect the validity and implementation of aspects of this declaration and assignment document. In such circumstances, I agree that the terms set forth herein control and are applied to the extent allowable.

[Signature Blocks follow]

INVENTOR 1

Signature: Brian James Langstraat Date: 9/28/2020
Brian James Langstraat

Witnessed by: _____ Date: _____
Signature

Printed Name of Witness

Witnessed by: _____ Date: _____
Signature

Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

Brian James Langstraat Date: 9/28/2020
Brian James Langstraat

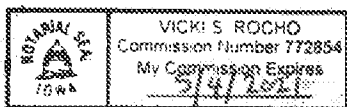
STATE OF IOWA

COUNTY OF LINN SS.

This 28 day of September, 2020 before me personally came the above-named assignor to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

Vicki S. Rocho
(Notary Public)



INVENTOR 2

Signature: /Craig Willard Vandeventer/_____
Craig Willard Vandeventer

Date: __08/04/2020_____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

Craig Willard Vandeventer

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named assignor to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

(Notary Public)

INVENTOR 3

Signature: Frank J. Swiderski

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

Frank J. Swiderski
Frank J. Swiderski

Date: 6446 2020

STATE OF IOWA
COUNTY OF LINN

ss.

This 6 day of August, 2020 before me personally came the above-named assignor to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal



Vicki S. Rocha
(Notary Public)

INVENTOR 4

Signature: /Keith Edward Smith/
Keith Edward Smith

Date: 8/5/2020

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

Keith Edward Smith

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named assignor to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

(Notary Public)