PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BALAJI HOSADURGAM RAVINDRANATH	01/15/2021

RECEIVING PARTY DATA

Name:	TRANSPORTATION IP HOLDINGS, LLC		
Street Address:	901 MAIN AVENUE		
City:	NORWALK		
State/Country:	CONNECTICUT		
Postal Code:	06851		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17167975

CORRESPONDENCE DATA

Fax Number: (314)584-4062

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.

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Correspondent Name: THE SMALL PATENT LAW GROUP, LLC

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ATTORNEY DOCKET NUMBER:	WABP21775USORG1 (1573US1)
NAME OF SUBMITTER:	MARY D. LAWLOR
SIGNATURE:	/MARY D. LAWLOR/
DATE SIGNED:	02/04/2021

Total Attachments: 4

source=WABP21775USORG1_DeclarationandAssignment_04FEB2021#page1.tif source=WABP21775USORG1_DeclarationandAssignment_04FEB2021#page2.tif source=WABP21775USORG1_DeclarationandAssignment_04FEB2021#page3.tif source=WABP21775USORG1_DeclarationandAssignment_04FEB2021#page4.tif

PATENT 506488401 REEL: 055154 FRAME: 0142

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:

THERMAL MANAGEMENT SYSTEM

\boxtimes	the specification of which is attached hereto OR
	United States application or PCT international application numberfiled on _, 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 Transportation IP Holdings, LLC (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
Balaji	Hosadurgam	Ravindranath	of	Mysore	KA	IN

hereby sell and assign to:

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Name of Company:	Transportation IP Holdings, LLC
Entity Type (optional):	Delaware Limited Liability Company
Address:	901 Main Avenue, Norwalk, Connecticut, 06851 USA

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

(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

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- 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: /Balaji Hosadurgam Ravindranath/ Balaji Hosadurgam Ravindranath	Date:	15 January 2021
Witnessed by:Signature	Date:	
Printed Name of Witness		
Witnessed by:Signature	Date:	
Printed Name of Witness		
Balaji HR	Date:	
STATE OF		
COUNTY OF		
This day of,, assignor to me personally known as the individual acknowledged to me that he executed the same of forth.		
Seal		
	(Notar	y Public)

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