505858607 01/10/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHN THOMAS COMPTON	10/15/2019
JÉRÔME MARTIN	11/05/2019
IAN BRODIE	10/15/2019
MARINE FEER	10/16/2019
YUNBO HOU	10/19/2019

RECEIVING PARTY DATA

Name:	ALSTOM TRANSPORT TECHNOLOGIES
Street Address:	48 RUE ALBERT DHALENNE
City:	SAINT- OUEN
State/Country:	FRANCE
Postal Code:	93400

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16584271

CORRESPONDENCE DATA

Fax Number: (212)704-6288

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.

Phone: 212-704-6000

Email: eileen.herring@troutman.com, IPServicesNYC@troutman.com

Correspondent Name: TROUTMAN SANDERS LLP

Address Line 1: 875 THIRD AVENUE

Address Line 4: NEW YORK, NEW YORK 10022

ATTORNEY DOCKET NUMBER: 249489.000043

NAME OF SUBMITTER: EILEEN C. HERRING

SIGNATURE: /Eileen C. Herring/

DATE SIGNED: 01/10/2020

This document serves as an Oath/Declaration (37 CFR 1.63).

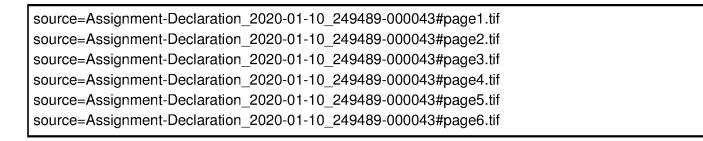
Total Attachments: 6

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PATENT REEL: 051480 FRAME: 0188

EPAS ID: PAT5905544

505858607



PATENT REEL: 051480 FRAME: 0189 System for monitoring an electromechanical relay, assembly and method for monitoring relay operation conditions

ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63 (For Use with Signed Application Data Sheet)

Title of Invention:	System for monitoring an elect monitoring relay operation con	romechanical relay, assembly and method for ditions	
Attorney Docket No.:	<i>S J</i> 1		
the attached appl		ne): on given above and claiming priority of the p	atent
Country	Date	Application No.	
-		-	
United States Ap	plication or PCT International A	. "	

<u>ASSIGNMENT</u>

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as a below-named inventor I have sold and assigned, and hereby sell and assign, to:

Name of Assignee: ALSTOM Transport Technologies

Address of Assignee: 48 rue Albert Dhalenne 93400 SAINT-OUEN FRANCE

(hereinafter ASSIGNEE) all right, title, and interest in and to the above-identified invention and United States patent application, including: (i) any and all divisions or continuations thereof, and in and to any and all Letters Patent of the United States that may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, or assigns to the full end of the term or terms for which any and all such Letters Patent may be granted; (ii) all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable, to be held and enjoyed by said ASSIGNEE, its successors, or assigns to the full end of the term or terms for which any and all such patents, utility models, designs or other rights may be granted; and (iii) all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof, to be held and enjoyed by said ASSIGNEE, its successors, or assigns to the full end of the term or terms for which any and all such patents, utility models, designs or other rights may be granted.

I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue any and all such Letters Patent to said ASSIGNEE, its successors, or assigns in accordance herewith.

I warrant and covenant that I have the right to sell and assign the interests herein sold and assigned and that I have not executed and will not execute any document or instrument in conflict herewith.

I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives, or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings, and perform all other lawful acts necessary or desirable by said ASSIGNEE, its successors, legal representatives, or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent that may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns, or to assist said ASSIGNEE, its successors, legal representatives, or assigns in obtaining, reissuing, or enforcing Letters Patent of the

System for monitoring an electromechanical relay, assembly and method for monitoring relay operation conditions

ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63 (For Use with Signed Application Data Sheet)

United States and any and all patents, utility models, designs or other rights that may be granted in the United States or any country or countries foreign to the United States, for said invention.

DECLARATION

As a below-named inventor, I hereby declare that:

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 under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

Signature HT. Cyt	·
Inventor: COMPTON John Thomas	Date: 0570BER 15, 2019
Signature:	
Inventor: MARTIN Jérôme	Date:
Signature:	
Inventor: BRODIE Ian	Date:
Signature:	
Inventor: FEER Marine	Date:
Signature:	
Inventor: HOU Yunbo	Date:

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Signature:	
Inventor: COMPTON John Thomas	Date:
Signature	8
Inventor: MARTIN Jérôme	Date:\\
Signature:	
Inventor: BRODIE Ian	Date:
Signature:	
Inventor: FEER Marine	Date:,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Signature:	
Inventor: HOU Yunbo	Date:

System for monitoring an electromechanical relay, assembly and method for monitoring relay operation conditions

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Signature:	
Inventor: COMPTON John Thomas	Date:
Signature:	
Inventor: MARTIN Jérôme	Date:
Signature: 4	
Inventor: BRODIE Ian	Date: October 15th, 2019
Signature:	
Inventor: FEER Marine	Date:
Signature:	
	Data received to a construction
Inventor: HOU Yunbo	Date: All Profession and American

Page 2 of 2

PATENT REEL: 051480 FRAME: 0193 System for monitoring an electromechanical relay, assembly and method for monitoring relay operation conditions

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Signature:	
Inventor: COMPTON John Thomas	Date:
Signature:	
Inventor: MARTIN Jérôme	Date:
Signature:	
Inventor: BRODIE Ian	Date:
Signature	
Inventor: FEER Marine	Date: October the 16th, 2019
Signature:	
Inventor: HOU Yunbo	Date:

Page 2 of 2 **PATENT** REEL: 051480 FRAME: 0194 System for monitoring an electromechanical relay, assembly and method for monitoring relay operation conditions

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Signature:	
Inventor: COMPTON John Thomas	Date:
Signature:	
Inventor: MARTIN Jérôme	Date:
Signature:	
Signature	
Inventor: BRODIE Ian	Date:
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Signature:	
Inventor: FEER Marine	Date:
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Inventor: HOU Yunbo	Date:

Page 2 of 2

PATENT REEL: 051480 FRAME: 0195