# 505764085 11/08/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5810901

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
THERMAL AND FLUIDS SOLUTIONS GROUP, LLC	07/10/2018

## **RECEIVING PARTY DATA**

Name:	ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES INC.	
Street Address:	450 SOUTH MERIDIAN STREET	
City:	INDIANAPOLIS	
State/Country:	INDIANA	
Postal Code:	46225	

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16611932

## **CORRESPONDENCE DATA**

#### Fax Number:

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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Address Line 4: WASHINGTON, D.C. 20004

ATTORNEY DOCKET NUMBER:	G3106-00302 / LWA12264	
NAME OF SUBMITTER:	D. JOSEPH ENGLISH	
SIGNATURE:	/D. Joseph English/	
DATE SIGNED:	11/08/2019	

# **Total Attachments: 3**

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PATENT 505764085 REEL: 050956 FRAME: 0554

# EXHIBIT A

#### CONFIRMATORY PATENT ASSIGNMENT

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

### ASSIGNMENT

WHEREAS, Thermal and Fluids Solutions Group, LLC, a Virginia limited liability company with principal offices at 357 Decatur Road, Stafford, Virginia 22554 ("ASSIGNOR") is the owner of the patent applications listed in <a href="Exhibit A-1">Exhibit A-1</a> (attached hereto and incorporated by reference) ("PATENT PORTFOLIO")

WHEREAS, Rolls-Royce North American Technologies Inc., a Delaware corporation with principal offices at 450 South Meridian Street, Indianapolis, Indiana 46225 ("ASSIGNEE") desires to acquire all of the right, title and interest of ASSIGNOR in, to and under the PATENT PORTFOLIO;

WHEREAS, ASSIGNOR and ASSIGNEE have entered into a certain Technology Transfer and Assignment Agreement, having an effective date of July 10, 2018, pursuant to which ASSIGNOR assigned, among other things, all right, title and interest in and to the PATENT PORTFOLIO to ASSIGNEE;

NOW, THEREFORE, in consideration of the terms of the Technology Transfer and Assignment Agreement and other good and valuable consideration, the receipt and sufficiency of which hereby is acknowledged, ASSIGNOR does hereby irrevocably sell, assign, transfer and convey unto ASSIGNEE its entire right, title and interest in and to the PATENT PORTFOLIO in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said applications including all divisions, continuations, continuations-in-part, reexaminations, substitutions, reissues, extensions, and renewals of the applications and registrations for the PATENT PORTFOLIO (and the right to apply for any of the foregoing); all rights to causes of action and remedies related thereto (including, without limitation, the right to sue for past, present or future infringement, misappropriation or violation of rights related to the foregoing); and any and all other rights and interests arising out of, in connection with or in relation to the PATENT PORTFOLIO.

IN WITNESS WHEREOF, ASSIGNOR has caused this Assignment to be duly executed on the 10<sup>th</sup> day of July, 2018.

[Signature and Notary to Follow.]

PATENT REEL: 050956 FRAME: 0555 ASSIGNOR:

Name: Eugene C. Jansen, P.E.

Title: President and Chief Engineer

State of 1101000)

County of MONION).ss

On this O day of 200, before me, the undersigned Notary Public, personally appeared Eugene C. Jansen, P.E., personally known to me or proved to me on the basis of satisfactory evidence to be the individual who signed the foregoing document as an ASSIGNOR and acknowledged to me that he executed he executed the same in his authorized capacity, and that by such signature, the person executed the instrument.

WITNESS my hand and official seal.

My Commission Expires:

Signature of Notary Publi

CHAYA HATHAWAY Notary Public - Seel State of Endlana

My Commission Syning Mar 3 2024

# EXHIBIT A-1

# TFSG PATENT PORTFOLIO

Patent Application No.	Title	Inventor(s)	Filing Date
62/492,986	System for Direct Control of Two-Phase Isothermal Evaporation at a Specified Temperature	Eugene Charles Jansen	May 2, 2017
62/656,168	Mechanically Pumped System for Direct Control of Two-Phase Isothermal Evaporation at a Specified Temperature	Eugene Charles Jansen	April 11, 2018
PCT/US18/29782	Method and Apparatus for Isothermal Cooling	Eugene Charles Jansen	April 27, 2018
62/508074	Single-Pass Expendable Two- Phase Thermal Pumper with Power Recovery	Eugene Charles Jansen Jeffrey Chen	May 18, 2017
PCT/US18/33543	Two-Phase Thermal Pump	Eugene Charles Jansen Jeffrey Chen	May 18, 2018

PATENT REEL: 050956 FRAME: 0557

**RECORDED: 11/08/2019**