505308104 02/01/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ADAM LOGAN	10/05/2018
NADIM NAJJAR	11/15/2018

RECEIVING PARTY DATA

Name:	ame: PRATT & WHITNEY CANADA CORP.			
Street Address: 1000 MARIE-VICTORIN				
Internal Address:	(01BE5)			
City:	LONGUEUIL			
State/Country:	CANADA			
Postal Code:	J4G 1A1			

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16152889

CORRESPONDENCE DATA

Fax Number:

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ATTORNEY DOCKET NUMBER:	05002993-2353US
NAME OF SUBMITTER:	ALEXANDRE DAOUST
SIGNATURE:	/Alexandre Daoust/
DATE SIGNED:	02/01/2019

Total Attachments: 3

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PATENT 505308104 REEL: 048215 FRAME: 0330

ASSIGNMENT

WHEREAS, We,

Adam LOGAN of Toronto, Ontario, Canada and Nadim NAJJAR of Sainte-Anne-De-Bellevue, Québec, Canada all with a mailing address of c/o Pratt & Whitney Canada Corp., 1000 Marie Victorin, (01BE5) Longueuil, Québec, J4G 1A1, Canada have invented certain new and useful improvements in

GAS TURBINE ENGINE AND COOLING AIR CONFIGURATION FOR TURBINE SECTION THEREOF

for which we have made an application for letters patent of the United States which was executed herewith.

AND WHEREAS, PRATT & WHITNEY CANADA CORP., 1000 Marie Victorin, (01BE5) Longueuil, Québec, J4G 1A1, Canada, hereafter "the Assignee", is desirous of acquiring the entire right, title and interest to and under said invention and any United States letters patent that may be granted for such application.

NOW, for good and valuable consideration, the receipt of which is hereby acknowledged, we do hereby assign, sell and transfer to the Assignee the entire right, title and interest in and to said invention and said application for letters patent of the United States, and in and to all divisions and continuations of said application, and in and to any letters patent of the United States and all reissues and extensions thereof that may be granted, together with all rights of priority granted by local laws and treaties including any international convention for the protection of industrial property, together with the right to extend the protection for said letters patent of the United States to the various territorial possessions now owned or which may be acquired by the United States of America, and all applications for letters patent which may be filed for said invention in any country or countries foreign to the United States, and all extensions, renewals and reissues thereof, all said rights to be held and enjoyed by the Assignee, its successors, legal representatives and assigns, to the full end of the term for which said letters patent for all such countries may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment had not been made. We do hereby request and authorize that any and all letters patent, when granted, be issued in accordance with this assignment to the Assignee.

In further consideration of said good and valuable consideration, we covenant and agree with the Assignee that they have a full and unencumbered title to the invention hereby assigned, which title we warrant unto the Assignee, and we further agree that we will, without demanding any further consideration therefor, at the request but at the expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, furnishing of information and giving of testimony, that may be or become necessary for obtaining, sustaining, or reissuing United States and foreign letters patents for said invention, and for maintaining and perfecting the Assignee's right to said invention and letters patent, particularly in cases of interference and litigation.

THIS ASSIGNMENT may be executed in counterparts, all of which shall be considered one and the same agreement.

Pratt reference: 104778US01 NRF reference: 05002993-2353US

PATENT REEL: 048215 FRAME: 0331

	IN WITNESS	WHEREOF,	Assignors	have	hereunto	signed	his	name	on th	e day	and	year
set fort	h helow											

	DATED this /5	day of	Naven	<u> </u>	
Date:	(YYYY/MM/DD)		Assignor:	X Name: Adam LOGAN	•
			Witness :	X Name:	,
Date:	2018/11/15 (YYYY/MM/DD)		Assignor :	X Name Nadim NAJJAR	
			W≋ness :	X HOOFTON	

Pratt reference: 104778US01 NRF reference: 05002993-2353US

PATENT REEL: 048215 FRAME: 0332

	IN WITNESS	WHEREOF	, Assignors	have	hereunto	signed	his	name	on	the	day	and	yea
set forti	h below.												

	DATED this 546 day o	<u> </u>	<u> 2018</u> 2018
Date:	2018/105	Assignor :	× J4lec
	(YYYY/MM/DD)	Witness:	Name: Adam LOGAN X Name: Kelin N
Date:	(YYYY/MM/DD)	Assignor:	X Name: Nadim NAJJAR
		Witness	X Name:

Pratt reference: 104778US01 NRF reference: 05002993-2353US

PATENT REEL: 048215 FRAME: 0333