505831563 12/20/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT					
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE					

CONVEYING PARTY DATA

Name	Execution Date			
CUMMINS, INC.	11/12/2019			

RECEIVING PARTY DATA

Name:	UNITED STATES DEPARTMENT OF ENERGY					
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City:	WASHINGTON					
State/Country:	D.C.					
Postal Code:	20585					

PROPERTY NUMBERS Total: 1

Property Type	Number					
Application Number:	14919123					

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DATE SIGNED:	12/20/2019

Total Attachments: 1

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PATENT 505831563 REEL: 051396 FRAME: 0104

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Invention Title: System and Method of DPF Passive Enhancement Through Powertrain Torque-Speed

Management (Provisional) (US) (CMI03768)

inventor(s): VIVEK ANAND SUJAN, TIMOTHY R. FRAZIER

U.S. Filing/Issue Date: 02/28/2011

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Patent or Application Serial No.: 61/447, 425 DE 112012001015.9 2/28/2012

Grant/Contract Number(s): DE-EE0003403

<u>US 13/407.583 2/28/2012 US9194318 Issued 11/24/2015</u>

Foreign Applications filed/intended in (countries) US Continuation 14/919,123 10/21/2015 US9624857 Issued 4/18/2017

The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14, FAR 52.227-11 or FAR 52.227-12 (if applicable) which are included among the terms of the above identified grant or contract award from the United States Government. This document is confirmatory of:

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The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this _		<i>k</i>		day of	Nov	/emb	er	, 20 ′	19			
By J. ST	EVEN	I KOL	.HOUSI					2.HE	/	UL		
(1	nstitutio	mal Bus	ness Offici	al)	**********	ni- 1999		(Signatu	re)		***********	
Title DIRECTO	OR, INTE	LLECTU	AL PROPER	TY, R&T MC	3MT	3		**********				
For CUMMINS	, INC	. D/B/I	A CUMMINS	TECHNI	CAL	CENTER						
	(Grant	ee/Cont	ractor Orga	nization)								
At CUMMINS,	INC.	D/B/A	CUMMINS	TECHNIC	AL C	ENTER	1900	MCKINLEY	AVE	COLUMBUS,	IN	47201
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PATENT REEL: 051396 FRAME: 0105

RECORDED: 12/20/2019