505343668 02/25/2019

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. D/B/A CUMMINS TECHNICAL CENTER	01/04/2018

RECEIVING PARTY DATA

Name:	UNITED STATES DEPARTMENT OF ENERGY	
Street Address:	1000 INDEPENDENCE AVE. S.W.	
City:	WASHINGTON	
State/Country:	D.C.	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15663457

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Total Attachments: 1

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PATENT 505343668 REEL: 048422 FRAME: 0298

(Business Address)

RECORDED: 02/25/2019

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Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison). Invention Title: System and Method for Increasing Nitrogen Dioxide Fraction in Exhaust Gas at Low Temperature Inventor(s): Yuhui Zha, John K. Heichelbech, Michael J. Cunningham Issued 07/17/2018 U.S. Filing/Issue Date: 07/28/2017 Patent or Application Serial No.: 15/663,457 US Patent 10022667 Grant/Contract Number(s): DE-EE0006795 Foreign Applications filed/intended in (countries): 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: 1. The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and 2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations that are applicable to the award. The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application. day of January Signed this J. STEVEN KOLHOUSE (Institutional Business Official) Title DIRECTOR, INTELLECTUAL PROPERTY, R&T MGMT For CUMMINS, INC. D/B/A CUMMINS TECHNICAL CENTER (Grantee/Contractor Organization)

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PATENT REEL: 048422 FRAME: 0299