

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4489946

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DOUGLAS E. DECKMAN	05/25/2017
DENNIS A. GAAL	05/25/2017
ERIK HERZ	06/12/2017
MRUGESH N. PATEL	05/30/2017
RECEIVING PARTY DATA	
Name:	EXXONMOBIL RESEARCH AND ENGINEERING COMPANY
Street Address:	1545 ROUTE 22 EAST
Internal Address:	P.O. BOX 900
City:	ANNANDALE
State/Country:	NEW JERSEY
Postal Code:	08801-0900
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15421707
CORRESPONDENCE DATA	
Fax Number:	(907)335-3649
<i>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.</i>	
Phone:	908-335-3202
Email:	jocelyn.k.justice@exxonmobil.com
Correspondent Name:	EXXONMOBIL RESEARCH AND ENGINEERING COMPANY
Address Line 1:	1545 ROUTE 22 EAST
Address Line 2:	P.O. BOX 900
Address Line 4:	ANNANDALE, NEW JERSEY 08801-0900
ATTORNEY DOCKET NUMBER:	2013EM318A US 2010-000225
NAME OF SUBMITTER:	ROBERT A. MIGLIORINI
SIGNATURE:	/jRobert A. Migliorini/
DATE SIGNED:	07/05/2017
Total Attachments: 4	

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Application Serial No. 15/421,707

EMRE Docket No. 2013EM381A

ASSIGNMENT
INVENTOR or INVENTORS:

DOUGLAS E. DECKMAN DENNIS A. GAAL ERIK HERZ MRUGESH N. PATEL

For good and valuable consideration, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

1) UNDERSIGNED hereby assign(s) to ExxonMobil Research and Engineering Company (formerly Exxon Research and Engineering Company), a corporation of Delaware, its successors, legal representatives and assigns, herein referred to collectively as ASSIGNEE, the entire right, title and interest, for the United States and all foreign countries, in and to UNDERSIGNED's invention or improvement and to all patent applications and patents covering same which is described in a patent application entitled

METHOD FOR IMPROVING ENGINE FUEL EFFICIENCY

said application having been executed on the 25, 30 May 2017
12 June 2017 day(s) of _____, and being further identified as EMRE Docket No. 2013EM381A; all rights of priority created by said application under provisions of international convention or treaties.

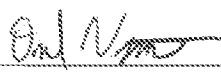
2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for and documents relating to obtaining patents and the prosecution thereof for said invention or improvement, and any continuations of such applications or substitutes therefor or registrations thereof, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office and any foreign patent office that ASSIGNEE may deem necessary or expedient.

3) UNDERSIGNED agree(s) that in the event of any application based on said assigned invention or improvement, or patent issued thereon, or any reissue or application for the reissue thereof, becoming involved in priority of invention proceedings, UNDERSIGNED will cooperate with ASSIGNEE to the best of the ability of UNDERSIGNED in the matter of preparing and executing all documents and giving and producing evidence in support thereof.

4) UNDERSIGNED agree(s) to perform upon ASSIGNEE's request any and all affirmative acts to obtain United States and foreign patents covering said invention or improvement and to vest all rights therein hereby conveyed to ASSIGNEE, as fully and as entirely as the same would have been held and enjoyed by UNDERSIGNED if this assignment and sale had not been made.

5) UNDERSIGNED hereby authorize(s) ASSIGNEE to insert in this instrument the date(s) on which UNDERSIGNED executed the Declaration for the above-referenced patent application.

IN WITNESS WHEREOF, this assignment has been executed by UNDERSIGNED on the date opposite UNDERSIGNED's NAME.

Date <u>5/25/2017</u>	Inventor <u> (LS)</u>	Witness <u></u>
	DOUGLAS E. DECKMAN	
Date _____	Inventor _____ (LS)	Witness _____
	DENNIS A. GAAL	
Date _____	Inventor _____ (LS)	Witness _____
	ERIK HERZ	
Date _____	Inventor _____ (LS)	Witness _____
	MRUGESH N. PATEL	

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27810
PATENT TRADEMARK OFFICE

Application Serial No. 15/421,707

EMRE Docket No. 2013EM381A

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25,30

May 2017

12

June 2017

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Date _____	Inventor _____ (LS)	Witness _____
	DOUGLAS E. DECKMAN	
Date <u>5/25/2017</u>	Inventor <u>Dennis A. Gaal</u> (LS)	Witness <u>Y. D. Shukla</u>
	DENNIS A. GAAL	
Date _____	Inventor _____ (LS)	Witness _____
	ERIK HERZ	
Date _____	Inventor _____ (LS)	Witness _____
	MRUGESH N. PATEL	

Application Serial No. 15/421,707

EMRE Docket No. 2013EM381A

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INVENTOR or INVENTORS:

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DENNIS A. GAAL

ERIK HERZ

MRUGESH N. PATEL

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METHOD FOR IMPROVING ENGINE FUEL EFFICIENCY

25,30 May 2017
said application having been executed on the 12 day(s) of June 2017, and being further identified as EMRE Docket No. 2013EM381A; all rights of priority created by said application under provisions of international convention or treaties.

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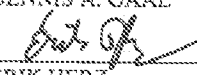
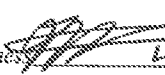
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Date _____ Inventor _____ (LS) Witness _____
DOUGLAS E. DECKMAN

Date _____ Inventor _____ (LS) Witness _____
DENNIS A. GAAL

Date 6/12/17 Inventor  (LS) Witness  LISA M. ROGERS
ERIK HERZ

Date _____ Inventor _____ (LS) Witness _____
MRUGESH N. PATEL

Application Serial No. 15/421,707

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Date _____ Inventor _____ (LS) Witness _____
DENNIS A. GAAL

Date _____ Inventor _____ (LS) Witness _____
ERIK HERZ

Date 5/30/17 Inventor Mrugesh Patel (LS) Witness Mrugesh Patel
MRUGESH N. PATEL