11/07/2017 504630380

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4677098

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date		
WILLIAM P ATTARD	10/06/2017		
SHUONAN XU	10/06/2017		
TYLER TUTTON	10/06/2017		
EDWARD D DOCKERTY	10/06/2017		

RECEIVING PARTY DATA

Name:	FCA US LLC
Street Address:	1000 CHRYSLER DRIVE
City:	AUBURN HILLS
State/Country:	MICHIGAN
Postal Code:	48326-2757

PROPERTY NUMBERS Total: 1

Property Type	Number					
Application Number:	15805359					

CORRESPONDENCE DATA

Fax Number: (248)944-6537

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.

Phone: 248-944-6500

Email: chris.davenport@fcagroup.com FCA US LLC CIMS 483-02-19 **Correspondent Name:** 800 CHRYSLER DR EAST Address Line 1:

Address Line 4: AUBURN HILLS, MICHIGAN 48326-2757

ATTORNEY DOCKET NUMBER:	710452US1
NAME OF SUBMITTER:	RALPH E. SMITH
SIGNATURE:	/Ralph E Smith/
DATE SIGNED:	11/07/2017

Total Attachments: 2

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> **PATENT** REEL: 044050 FRAME: 0537 504630380

ASSIGNMENT

We, William P. Attard of Brighton, Livingston County, MI
Shuonan Xu of Troy, Oakland County, MI
Tyler Tutton of Royal Oak, Oakland County, MI
Edward D. Docherty of Washington, Macomb County, MI

have invented a new and useful process, machine, manufacture, composition of matter, or an improvement thereof, entitled:

MEASUREMENT, MODELING, AND ESTIMATION OF SCAVENGING AIR FLOW IN AN INTERNAL COMBUSTION ENGINE

for	which	we	have	executed	an	application	for	Letters	Patent	of	the	United	States	on
	10-6	11	******	<u>.</u>										

FCA US LLC, a Delaware limited liability company having its principal place of business at Auburn Hills, Michigan, desires to acquire the entire right, title, and interest in the invention and under the Letters Patent, and similar protection to be obtained, worldwide.

In consideration of the payment by FCA US LLC to us of the sum of \$1.00 and other good and valuable consideration, receipt being acknowledged, we sell, assign, and transfer unto FCA US LLC, our full and entire right, title, and interest in the invention worldwide and to any provisional application and all Letters Patent or similar legal protection to be obtained for the invention worldwide by the application or any continuation, division, renewal, substitute, re-examination, reissue, or any legal equivalent, for the full term or terms that may be granted.

We authorize our attorneys, authorized to prosecute said application, to insert the filing date and Serial Number of the application, to wit, Serial No. _______, filed _______, filed _______. We authorize and request the Commissioner of Patents to issue all Letters Patent of the United States to FCA US LLC.

We warrant that we have the right to sell, assign, and transfer our full and entire right, title, and interest in the invention and that no assignment, sale, agreement, or encumbrance has been or will be made or entered into that will conflict with this sale, assignment, and transfer.

We further agree to communicate to FCA US LLC or its representatives, any facts known to us respecting the invention, testify in any legal proceedings relating to the invention when called upon, and sign all instruments and documents and render such assistance which, in the judgment of FCA US LLC, is necessary to vest in it and protect the legal right, title, and interest assigned in this Assignment.

This Assignment will be binding on our heirs and legal representatives.

William F. Attard
Date 10 6 2017
Von
Shuonan Xu
Date 10/06/2017
Jyle Litto Tyler Futton Date October 6, 2017
Edward D. Dockerty

Date 10/6/2017

RECORDED: 11/07/2017