

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Hatem Zakaria Orban</td><td>06/04/2013</td></tr><tr><td>Craig D. Marriott</td><td>06/04/2013</td></tr><tr><td>Robert S. McAlpine</td><td>06/04/2013</td></tr><tr><td>Dustin Loveland</td><td>06/04/2013</td></tr></tbody></table>	Name	Execution Date	Hatem Zakaria Orban	06/04/2013	Craig D. Marriott	06/04/2013	Robert S. McAlpine	06/04/2013	Dustin Loveland	06/04/2013	
Name	Execution Date										
Hatem Zakaria Orban	06/04/2013										
Craig D. Marriott	06/04/2013										
Robert S. McAlpine	06/04/2013										
Dustin Loveland	06/04/2013										
RECEIVING PARTY DATA											
Name:	GM Global Technology Operations LLC										
Street Address:	P.O. Box 300										
Internal Address:	Mail Code 482-C23-B21										
City:	Detroit										
State/Country:	MICHIGAN										
Postal Code:	48265-3000										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13912700</td></tr></tbody></table>	Property Type	Number	Application Number:	13912700							
Property Type	Number										
Application Number:	13912700										
CORRESPONDENCE DATA											
Fax Number:	8602860115										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	860-286-2929										
Email:	usptopatentmail@cantorcolburn.com										
Correspondent Name:	Cantor Colburn LLP-General Motors										
Address Line 1:	20 Church Street, 22nd Floor										
Address Line 4:	Hartford, CONNECTICUT 06103										
ATTORNEY DOCKET NUMBER:	P021495-PTUS-RRM										
NAME OF SUBMITTER:	Karl F. Barr, Jr.										
Signature:	/KarlFBarrJr/										
Date:	06/07/2013										
Total Attachments: 1 source=6PT5424#page1.tif											

CH \$40.00 13912700

PATENT

502376453

REEL: 030568 FRAME: 0574

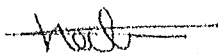
ASSIGNMENT

Pursuant to an agreement with my employer, I formally assign to GM GLOBAL TECHNOLOGY OPERATIONS LLC, the entire right, title and interest, in all countries and application types, in the improvements set forth in the United States patent application P021495-PTUS-RRM entitled

REDUCED TORQUE VARIATION FOR ENGINES WITH ACTIVE FUEL MANAGEMENT

for which I executed a declaration. If the patent application has been filed, I authorize any practitioner associated with Customer No. 80748 to insert the application number and filing date of said application here in parentheses (13/912,700 filed June 7, 2013) when known.

Inventor's signature

Date 6/4/2013

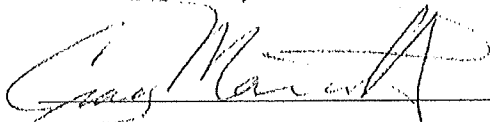
Full name :

HATEM ZAKARIA ORBAN

Residence :

AUBURN HILLS, MICHIGAN

Inventor's signature

Date 6/4/2013

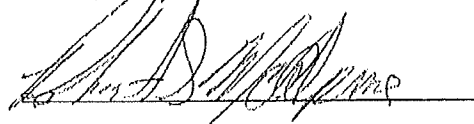
Full name :

CRAIG D. MARRIOTT

Residence :

CLAWSON, MICHIGAN

Inventor's signature

Date 6/4/13

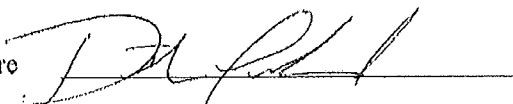
Full name :

ROBERT S. MCALPINE

Residence :

LAKE ORION, MICHIGAN

Inventor's signature

Date 6/4/13

Full name :

DUSTIN LOVELAND

Residence :

HOLLY, MICHIGAN