

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Vijay Ramappan	11/20/2009
Jonathan T. Shibata	11/20/2009
Amanpal S. Grewal	10/29/2009
RECEIVING PARTY DATA	
Name:	GM GLOBAL TECHNOLOGY OPERATIONS, INC.
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State/Country:	MICHIGAN
Postal Code:	48265-3000
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12629966
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NAME OF SUBMITTER:	Michael D. Wiggins
Total Attachments: 2 source=ASSIGNMENT P007243#page1.tif	

CH \$40.00 12629966

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PATENT
REEL: 023598 FRAME: 0095

ASSIGNMENT

Pursuant to an agreement with my employer, I formally assign to GM GLOBAL TECHNOLOGY OPERATIONS, INC., the entire right, title and interest, in all countries and application types, in the improvements set forth in the United States patent application P007243-PTE-CD entitled

**SYSTEMS AND METHODS FOR HEATING INTAKE AIR DURING COLD HCCI
OPERATION**

for which I executed a declaration dated as indicated below. If the patent application has been filed, I authorize any patent practitioner associated with Customer Number 74175 to insert the application number and filing date of said application here in parentheses (12/629966 filed Dec. 3, 2009) when known.

Inventor's signature Vijay Ramappan Date 11-20-09

Full name : VIJAY RAMAPPAN

Declaration dated :

Residence : NOVI, MICHIGAN

11-20-09

Inventor's signature Jonathan T. Shibata Date 11/20/2009

Full name : JONATHAN T. SHIBATA

Declaration dated :

Residence : WHITMORE LAKE, MICHIGAN

11/20/2009

Inventor's signature _____ Date _____

Full name : AMANPAL S. GREWAL

Declaration dated :

Residence : LIVONIA, MICHIGAN

ASSIGNMENT

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Inventor's signature _____ Date _____

Full name : VIJAY RAMAPPAN

Declaration dated :

Residence : NOVI, MICHIGAN

Inventor's signature _____

Date _____

Full name : JONATHAN T. SHIBATA

Declaration dated :

Residence : WHITMORE LAKE, MICHIGAN

Inventor's signature Amarpal S. Grewal

Date OCTOBER 29 2009

Full name : AMANPAL S. GREWAL

Declaration dated :

Residence : ~~LIVONIA~~, MICHIGAN

OCTOBER 29 2009

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PATENT