PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Donald Chan	10/02/2009
William L. Aldrich III	10/02/2009
John L. Lahti	10/02/2009
Birendra P. Bhattarai	10/05/2009
Krunal P. Patel	10/02/2009
Ning Jin	10/02/2009

RECEIVING PARTY DATA

Name:	GM Global Technology Operations, Inc.	
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

Property Type	Number	
Application Number:	12579694	

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: P006570-PTH-RRM

PATENT

REEL: 023382 FRAME: 0068

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NAME OF SUBMITTER:	Christopher W. Quinn
Total Attachments: 2 source=Assignment_P006570#page1.tif source=Assignment_P006570#page2.tif	

PATENT REEL: 023382 FRAME: 0069

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 P006570-PTH-RRM entitled

METHOD AND APPARATUS FOR OPTIMIZING ENGINE IDLE SPEED IN A VEHICLE

for which I executed a declaration dated as indicated below. If the patent application has been filed, I authorize practitioners associated with Customer No. 72823 to insert the application number and filing date of said application here in parentheses (12/579,694) filed 15-007-2009 when known.

Inventor's signature	Bull A	Date $10/2/2009$
Full name:	DONALD CHAN	Declaration dated:
Residence:	FARMINGTON HILLS, MICHIGAN	10/2/2009
Inventor's signature	William L Alchie (50	Date 10 /02 / 2009
Full name:	WILLIAM L. ALDRICH III	Declaration dated:
Residence:	DAVISBURG, MICHIGAN	10/02/2009
Inventor's signature	The L. Lake	Date 10/02/2009
Full name:	JOHN L. LAHTI	Declaration dated:
Residence:	NOVI, MI	10/02/2009
Inventor's signature	Briendre Chattarai	Date 10/05/2009
Full name :	BIRENDRA P. BHATTARAI	Declaration dated:
Residence:	NOVI. MICHIGAN	10/05/2009

PATENT

REEL: 023382 FRAME: 0070

Customer No. 72823 P006570-PTH-RRM, Page 2

Inventor's signature Revail Offel Date 10/02/2009

Full name: KRUNAL P PATEL Declaration dated:

Residence: STERLING HEIGHT, MICHIGAN 10/02/2003

Inventor's signature Date 10/02/2009

Full name: NING JIN Declaration dated:

Residence: NOVI, MICHIGAN 10/02/2009

PATENT REEL: 023382 FRAME: 0071

RECORDED: 10/16/2009