PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Alan W. Hayman	03/18/2013
Robert S McAlpine	03/15/2013

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

Property Type	Number	
Application Number:	13848105	

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: P022180-PTUS-RRM/GM3039

NAME OF SUBMITTER: Christopher W. Quinn

Total Attachments: 1

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PATENT REEL: 030056 FRAME: 0837

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 P022180-PTUS-RRM entitled

CRANKSHAFT FOR VARIABLE DISPLACEMENT INTERNAL COMBUSTION ENGINE

for which I executed a declaration. If the patent application has been filed, I authorize any practitioner associated with Customer No. 72823 to insert the application number and filing date of said application here in parentheses ($13/848105$ filed $21-MAR-2013$ when known.					
Inventor's signature Full name:	ALAN W. HAYMAN	_	Date /8MAR 2013		
Residence:	ROMEO, MICHIGAN				
Inventor's signature Full name :	ROBERT S MCALPINE	1	Date 3-15-13		

LAKE ORION, MICHIGAN

Residence:

RECORDED: 03/21/2013

PATENT

REEL: 030056 FRAME: 0838