

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>Honghao Tan</td> <td>03/20/2012</td> </tr> <tr> <td>Anthony H. Heap</td> <td>03/16/2012</td> </tr> <tr> <td>Sean W. McGrogan</td> <td>03/15/2012</td> </tr> <tr> <td>Brian R. Medema</td> <td>03/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Honghao Tan	03/20/2012	Anthony H. Heap	03/16/2012	Sean W. McGrogan	03/15/2012	Brian R. Medema	03/20/2012		
Name	Execution Date												
Honghao Tan	03/20/2012												
Anthony H. Heap	03/16/2012												
Sean W. McGrogan	03/15/2012												
Brian R. Medema	03/20/2012												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>GM Global Technology Operations LLC</td> </tr> <tr> <td>Street Address:</td> <td>300 Renaissance Center</td> </tr> <tr> <td>Internal Address:</td> <td>Mail Code 482-C23-B21, P.O. Box 300</td> </tr> <tr> <td>City:</td> <td>Detroit</td> </tr> <tr> <td>State/Country:</td> <td>MICHIGAN</td> </tr> <tr> <td>Postal Code:</td> <td>48265-3000</td> </tr> </table>		Name:	GM Global Technology Operations LLC	Street Address:	300 Renaissance Center	Internal Address:	Mail Code 482-C23-B21, P.O. Box 300	City:	Detroit	State/Country:	MICHIGAN	Postal Code:	48265-3000
Name:	GM Global Technology Operations LLC												
Street Address:	300 Renaissance Center												
Internal Address:	Mail Code 482-C23-B21, P.O. Box 300												
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>13444773</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13444773								
Property Type	Number												
Application Number:	13444773												
CORRESPONDENCE DATA													
<p>Fax Number: (248)676-2799 Phone: 248-676-2798 Email: mcichosz@cichoszlaw.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> Correspondent Name: CICHOSZ & CICHOSZ, PLLC Address Line 1: 129 E. COMMERCE Address Line 4: MILFORD, MICHIGAN 48381</p>													
ATTORNEY DOCKET NUMBER:	P016493/PTUS/RRM-GMC11150												
NAME OF SUBMITTER:	Mona-Lisa Cichosz												
<p>Total Attachments: 3 source=Assignment-P016493-GMC11150#page1.tif source=Assignment-P016493-GMC11150#page2.tif source=Assignment-P016493-GMC11150#page3.tif</p>													

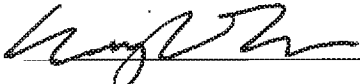
CH \$40.00 13444773

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 P016493-PTUS-RRM entitled

A TIERED, SUBTRACTIVE METHOD TO SOLVE A LINEAR CONSTRAINT FUNCTION
ASSOCIATED WITH CONTROLLING A HYBRID POWERTRAIN SYSTEM

for which I executed a declaration. If the patent application has been filed, I authorize any practitioner associated with Customer No. 70465 to insert the application number and filing date of said application here in parentheses (13/444,773 filed 11-APR-2012) when known.

Inventor's signature  Date 3/20/2012

Full name : HONGHAO TAN

Residence : ANN ARBOR, MICHIGAN

Inventor's signature _____ Date _____

Full name : ANTHONY H. HEAP

Residence : ANN ARBOR, MICHIGAN

Inventor's signature _____ Date _____

Full name : SEAN W. MCGROGAN

Residence : ANN ARBOR, MICHIGAN

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 P016493-PTUS-RRM entitled

A TIERED, SUBTRACTIVE METHOD TO SOLVE A LINEAR CONSTRAINT FUNCTION
ASSOCIATED WITH CONTROLLING A HYBRID POWERTRAIN SYSTEM

for which I executed a declaration. If the patent application has been filed, I authorize any practitioner associated with Customer No. 70465 to insert the application number and filing date of said application here in parentheses (13/444,773 filed 11-APR-2012) when known.

Inventor's signature _____ Date _____

Full name : HONGHAO TAN

Residence : ANN ARBOR, MICHIGAN

Inventor's signature Anthony H. Heap Date 2012/03/16

Full name : ANTHONY H. HEAP

Residence : ANN ARBOR, MICHIGAN

Inventor's signature Sean W. McGrogan Date 2012/03/15

Full name : SEAN W. MCGROGAN

Residence : ANN ARBOR, MICHIGAN

Inventor's signature

B. R. Meema

Date 2012/03/20

Full name :

BRIAN R. MEDEMA

Residence :

HIGHLAND, MICHIGAN