

PATENT ASSIGNMENT

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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>Wayne W. Cai</td> <td>02/23/2012</td> </tr> <tr> <td>Bongsu Kang</td> <td>02/24/2012</td> </tr> <tr> <td>Chin-An Tan</td> <td>02/23/2012</td> </tr> </tbody> </table>		Name	Execution Date	Wayne W. Cai	02/23/2012	Bongsu Kang	02/24/2012	Chin-An Tan	02/23/2012
Name	Execution Date								
Wayne W. Cai	02/23/2012								
Bongsu Kang	02/24/2012								
Chin-An Tan	02/23/2012								
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>13409494</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13409494				
Property Type	Number								
Application Number:	13409494								
CORRESPONDENCE DATA									
Fax Number:	(248)380-8968								
Phone:	248-380-9300								
Email:	cap@quinnlawgroup.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:	Quinn Law Group								
Address Line 1:	39555 Orchard Hill Pl., Ste 520								
Address Line 4:	Novi, MICHIGAN 48375								
ATTORNEY DOCKET NUMBER:	P018033-RD-SDJ/GM2564								
NAME OF SUBMITTER:	Christopher W. Quinn								
Total Attachments: 2 source=Assignment_P018033#page1.tif source=Assignment_P018033#page2.tif									

CH \$40.00 13409494

ASSIGNMENT

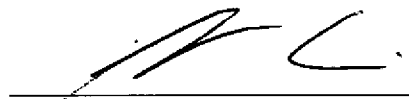
Pursuant to an agreement with my employer, I formally assign to GM GLOBAL TECHNOLOGY OPERATIONS LLC, the entire right, title and interest, in all countries and application types, in the improvements set forth in the United States patent application P018033-RD-SDJ entitled

ACTIVELY CONTROLLED VIBRATION WELDING SYSTEM AND METHOD

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 (13/409,494 filed 01-MAR-2012) when known.

If the patent application has been filed provisionally, the application number and filing date of said provisional application(s) assigned herein are as follows:

US Provisional Serial No Filed
61/541324 30-SEP-2011

Inventor's signature  Date 2/23/2012

Full name : WAYNE W. CAI

Residence : TROY, MICHIGAN

Inventor's signature _____ Date _____

Full name : BONGSU KANG

Residence : FORT WAYNE, INDIANA

Inventor's signature  Date 2012/02/23

Full name : CHIN-AN TAN

Residence : TROY, 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 P018033-RD-SDJ entitled

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US Provisional Serial No	Filed
61/541324	30-SEP-2011

Inventor's signature _____ Date _____

Full name : WAYNE W. CAI

Residence : TROY, MICHIGAN

Inventor's signature  _____ Date 2/24/2012

Full name : BONGSU KANG

Residence : FORT WAYNE, INDIANA

Inventor's signature _____ Date _____

Full name : CHIN-AN TAN

Residence : TROY, MICHIGAN