

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>Steven SCHULZ</td> <td>05/14/2012</td> </tr> <tr> <td>Michael GRIMMER</td> <td>05/17/2012</td> </tr> <tr> <td>Konstantin MAJAROV</td> <td>05/14/2012</td> </tr> <tr> <td>William CAWTHORNE</td> <td>05/18/2012</td> </tr> </tbody> </table>		Name	Execution Date	Steven SCHULZ	05/14/2012	Michael GRIMMER	05/17/2012	Konstantin MAJAROV	05/14/2012	William CAWTHORNE	05/18/2012		
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<table border="1"> <tr> <td>Name:</td> <td>GM GLOBAL TECHNOLOGY OPERATIONS LLC</td> </tr> <tr> <td>Street Address:</td> <td>P.O. BOX 300</td> </tr> <tr> <td>Internal Address:</td> <td>Mail Code 482-C23-B21</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:	P.O. BOX 300	Internal Address:	Mail Code 482-C23-B21	City:	Detroit	State/Country:	MICHIGAN	Postal Code:	48265-3000
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
Fax Number:	(480)385-5061												
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
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ATTORNEY DOCKET NUMBER:	P019775-ATC-CD (003.0936)												
NAME OF SUBMITTER:	Erin P. Madill												
Total Attachments: 3 source=20120522_Assignment_P019775#page1.tif source=20120522_Assignment_P019775#page2.tif source=20120522_Assignment_P019775#page3.tif													

CH \$40.00 13477275

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 P019775-ATC-CD (003.0936) entitled:

**METHODS, SYSTEMS AND APPARATUS FOR IMPLEMENTING DITHERING IN
MOTOR DRIVE SYSTEM FOR CONTROLLING OPERATION OF AN ELECTRIC
MACHINE**

for which application for Letters Patent of the United States:

- has been executed on even date herewith;
- executed on _____;
- was filed on May 22, 2012 and assigned U.S. Serial No. 13/477,275;

ASSIGNOR hereby authorizes GM GLOBAL TECHNOLOGY OPERATIONS LLC, its successors and assigns, its legal representatives, or anyone it may properly designate, to insert in this instrument the filing date and/or serial number of said application when ascertained.

Inventor's signature  Date 5/14/12
Full name : STEVEN E. SCHULZ
Residence : TORRANCE, CALIFORNIA

Inventor's signature _____ Date _____
Full name : MICHAEL J. GRIMMER
Residence : TROY, MICHIGAN

Inventor's signature  Date 5/14/2012
Full name : KONSTANTIN S. MAJAROV
Residence : TORRANCE, CALIFORNIA

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Inventor's signature Michael J. Grimmer Date 5/17/2012
Full name : MICHAEL J. GRIMMER
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