

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>Christopher D. Cogan</td> <td>01/05/2013</td> </tr> <tr> <td>James T. Singer</td> <td>01/08/2013</td> </tr> <tr> <td>Stephen M. Fitch</td> <td>01/08/2013</td> </tr> <tr> <td>Maurice G. Meyer</td> <td>01/08/2013</td> </tr> <tr> <td>David D. Goettsch</td> <td>01/16/2013</td> </tr> </tbody> </table>		Name	Execution Date	Christopher D. Cogan	01/05/2013	James T. Singer	01/08/2013	Stephen M. Fitch	01/08/2013	Maurice G. Meyer	01/08/2013	David D. Goettsch	01/16/2013
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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>13746558</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13746558								
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CORRESPONDENCE DATA													
Fax Number:													
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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NAME OF SUBMITTER:	Matthew D. Thayne												
Total Attachments: 2 source=Assignment_P020800#page1.tif source=Assignment_P020800#page2.tif													

CH \$40.00 13746558

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 P020800-PTUS-CHE entitled

Methods for Sand Core Gas Evacuation and Related Systems and Apparatus

for which I executed a declaration. If the patent application has been filed, I authorize any practitioner associated with Customer No. 106681 to insert the application number and filing date of said application here in parentheses (13/746,558 filed 1/22/2013) when known.

Inventor's signature Christopher D. Cogan Date 1/5/13

Full name : CHRISTOPHER D. COGAN

Residence : DEFIANCE, OHIO

Inventor's signature James T. Singer Date 1/8/13

Full name : JAMES T. SINGER

Residence : NEY, OHIO

Inventor's signature Stephen M. Fitch Date 1/8/13

Full name : STEPHEN M. FITCH

Residence : OAKWOOD, OHIO

Inventor's signature Maurice Meyer Date 1/8/13

Full name : MAURICE G. MEYER

Residence : DEFIANCE, OHIO

Inventor's signature David D. Goettsch Date 1/14/13

Full name : DAVID D. GOETTSCHE

Residence : SHELBY TOWNSHIP, MICHIGAN