

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>Bryan M. Styles</td> <td>12/20/2012</td> </tr> <tr> <td>Mark D. Nemesh</td> <td>12/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Bryan M. Styles	12/20/2012	Mark D. Nemesh	12/20/2012
Name	Execution Date						
Bryan M. Styles	12/20/2012						
Mark D. Nemesh	12/20/2012						
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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>13731247</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13731247		
Property Type	Number						
Application Number:	13731247						
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Total Attachments: 2 source=Assignment_P021871#page1.tif source=Assignment_P021871#page2.tif							

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PATENT

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 P021871-GMVE-DPH entitled

METHOD AND APPARATUS FOR CONTROLLING A COMBINED HEATING AND COOLING VAPOR COMPRESSION SYSTEM

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 (13/731,247 filed 31-DEC-2012) when known.

Inventor's signature Bryan M. Styles Date 12/20/2012

Full name : BRYAN M. STYLES
Residence : SOUTH LYON, MICHIGAN

Inventor's signature _____ Date _____

Full name : MARK D. NEMESH
Residence : TROY, MICHIGAN

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Full name : BRYAN M. STYLES

Residence : SOUTH LYON, MICHIGAN

Inventor's signature  Date 20 DEC 2012

Full name : MARK D. NEMESH

Residence : TROY, MICHIGAN