

## 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>D. Ryan Williams</td> <td>11/15/2012</td> </tr> <tr> <td>Scott B. Fiveland</td> <td>12/05/2012</td> </tr> </tbody> </table>		Name	Execution Date	D. Ryan Williams	11/15/2012	Scott B. Fiveland	12/05/2012				
Name	Execution Date										
D. Ryan Williams	11/15/2012										
Scott B. Fiveland	12/05/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Caterpillar Inc.</td> </tr> <tr> <td>Street Address:</td> <td>100 N.E. Adams Street</td> </tr> <tr> <td>City:</td> <td>Peoria</td> </tr> <tr> <td>State/Country:</td> <td>ILLINOIS</td> </tr> <tr> <td>Postal Code:</td> <td>61629-6490</td> </tr> </table>		Name:	Caterpillar Inc.	Street Address:	100 N.E. Adams Street	City:	Peoria	State/Country:	ILLINOIS	Postal Code:	61629-6490
Name:	Caterpillar Inc.										
Street Address:	100 N.E. Adams Street										
City:	Peoria										
State/Country:	ILLINOIS										
Postal Code:	61629-6490										
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>13712285</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13712285						
Property Type	Number										
Application Number:	13712285										
CORRESPONDENCE DATA											
<p>Fax Number: 3126165700  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (312) 616-5648        Email: assignments@leydig.com        Correspondent Name: Elias P. Soupos        Address Line 1: Leydig, Voit &amp; Mayer, Ltd.        Address Line 2: 180 North Stetson Ave., Suite 4900        Address Line 4: Chicago, ILLINOIS 60601-6731</p>											
ATTORNEY DOCKET NUMBER:	710304										
NAME OF SUBMITTER:	Elias P. Soupos										
<p>Total Attachments: 2        source=Executed Assignment#page1.tif        source=Executed Assignment#page2.tif</p>											

CH \$40.00 13712285

-1 of 2-

**ASSIGNMENT**

WHEREAS, **D. Ryan Williams**, hereinafter referred to as ASSIGNOR, has invented together with **Scott B. Fiveland** a new and useful

**Six-Stroke Internal Combustion Engine Valve Activation  
System and Method for Operating Such Engine**

for which ASSIGNOR has made application for Letters Patent in the United States of America, such invention being described and identified by said application identified as Application No. 13/712,285, filed December 12, 2012; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR;

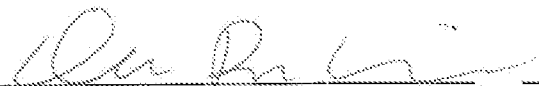
1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.

2. At the request and expense of ASSIGNEE, ASSIGNOR agrees to communicate to ASSIGNEE any facts known respecting said invention, to execute all papers necessary to file any application on said invention necessary or desirable to aid ASSIGNEE in obtaining and enforcing proper protection for said invention in the United States of America and any foreign country.

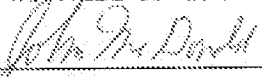
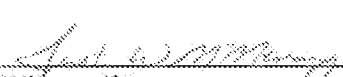
3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc.

4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

 11/15/2012  
D. RYAN WILLIAMS Date

IN WITNESS OF the execution hereof by D. RYAN WILLIAMS we have hereunto set our hands.

<u></u> <u>11/15/2012</u>	<u></u> <u>11/15/12</u>
Witness (1) Date	Witness (2) Date
Address: <u>Teach Center F-724</u>	Address: <u>709 W. Chatham St.</u>
<u>P.O. Box 1875</u>	<u>Peoria IL 61628</u>
<u>Peoria IL 61696</u>	

-2 of 2-

SCOTT B. FIVELAND  
SCOTT B. FIVELAND

12/05/2012  
Date

IN WITNESS OF the execution hereof by SCOTT B. FIVELAND we have hereunto set our hands.

Robert J. Faltus 12/5/12  
Witness (1) Date

Amanda M. Moberg 12/5/12  
Witness (2) Date

Address: 6909 W. Deford Rd.  
Dunlap, IL 61525

Address: 711 W. Chestnut St.  
Chillicothe, IL 61523