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COVER SHEET  
ONLYU.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 08350.7932  
Attorney Customer Number: 58,982To the Director of the U.S. Patent and Trademark Office:  
Please record the attached original documents or copy thereof.

Mail Stop Assignment Recordation Service

|                                                                                                                          |                                         |                                                                                                                   |                      |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------|
| 1. Name of conveying party:<br>a) Anthony Clark RODMAN<br>b) Cornelius Nicolae OPRIS                                     |                                         | 2. Name and address of receiving party(ies):<br>Name: Caterpillar Inc.                                            |                      |
| Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                                         | Internal Address: Intellectual Property Department                                                                |                      |
| 3. Nature of conveyance:<br><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger               |                                         | Street Address: 100 N.E. Adams Street                                                                             |                      |
| <input type="checkbox"/> Security Agreement                                                                              | <input type="checkbox"/> Change of Name | State: IL                                                                                                         | Zip Code: 61629-6490 |
| <input type="checkbox"/> Other:                                                                                          |                                         | Additional name(s) & Address(es) attached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                      |
| Execution Date: a) May 29, 2008<br>b) May 29, 2008                                                                       |                                         |                                                                                                                   |                      |

Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: a) May 29, 2008; b) May 29, 2008

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached?

☐ Yes ☒ No

4. Name and address of party to whom correspondence concerning document should be mailed:

Name: Christopher P. Isaac

Total number of applications and registrations involved: 1

5. Total fee (37 CFR 3.41): \$40

☒ Enclosed (Please charge deficiency to deposit account)☐ Authorized to be charged to deposit account

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT &amp; DUNNER, L.L.P.

Street Address: 901 New York Avenue, N.W.

City: Washington, D.C.

State: Zip: 20001

6. Deposit Account No. 06-0916

7. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ryan C. Stockett, Reg. No. 53,642

May 30, 2008

Signature

Date

Total number of pages including cover sheet, attachments and documents: 3

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PATENT  
REEL: 021088 FRAME: 0994

U.S. PTO  
12/155193  
05/30/2008

SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 08350.7932  
Client Ref. No. 07-932

### ASSIGNMENT

WHEREAS I/We, the below named inventors, hereinafter referred to as Assignors, have made an invention entitled:

#### EXHAUST SYSTEM IMPLEMENTING LOW-TEMPERATURE REGENERATION STRATEGY

for which I/We executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on ( ) (Serial No. ); and

WHEREAS, Caterpillar Inc., a corporation of Delaware whose post office address is **Intellectual Property Department, 100 N.E. Adams Street, Peoria, IL 61629-6490** (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, provisional application Serial No. , filed (if any), and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

|                                                                         |                                          |                           |
|-------------------------------------------------------------------------|------------------------------------------|---------------------------|
| 1. FULL NAME OF SOLE OR FIRST ASSIGNOR<br><b>Anthony Clark RODMAN</b>   | ASSIGNOR'S SIGNATURE<br><i>AC Rodman</i> | DATE<br><i>5/29/08</i>    |
| ADDRESS<br><b>13707 Wild Spruce Court, Chillicothe, Illinois, 61523</b> |                                          | CITIZENSHIP<br><b>USA</b> |
|                                                                         |                                          |                           |

Listing of Inventors Continued on Page 2 hereof ☒ Yes ☐ No

|                                                                   |                                            |                      |
|-------------------------------------------------------------------|--------------------------------------------|----------------------|
| 1. WITNESS NAME<br>VADIRAJ KULKARNI                               | WITNESS SIGNATURE<br><i>Vadraj</i>         | DATE<br>05/29/08     |
| ADDRESS<br>1700 W HICKORY GROVE RD, Apt # B206, DUNLAP, IL- 61525 |                                            | CITIZENSHIP<br>INDIA |
|                                                                   |                                            |                      |
| 2. WITNESS NAME<br>ASHUJOSH KATARI                                | WITNESS SIGNATURE<br><i>AshuJosh Katar</i> | DATE<br>05/29/08     |
| ADDRESS<br>5327 N CASTLEBERRY DR, PEORIA, IL-61615                |                                            | CITIZENSHIP<br>INDIA |
|                                                                   |                                            |                      |

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|------------------------------------------------------------------|--------------------------------------------------------|------------------------|
| 2. FULL NAME OF SECOND ASSIGNOR<br>Cornelius Nicolae OPRIS       | ASSIGNOR'S SIGNATURE<br><i>Cornelius Nicolae Opris</i> | DATE<br>5/29-2008      |
| ADDRESS<br>5946 W. Ridgcrest Circle, Peoria, IL 61615            |                                                        | CITIZENSHIP<br>DENMARK |
|                                                                  |                                                        |                        |
| 1. WITNESS NAME<br>VADIRAJ KULKARNI                              | WITNESS SIGNATURE<br><i>Vadraj</i>                     | DATE<br>05/29/08       |
| ADDRESS<br>1700 W HICKORY GROVE RD, # B 206, DUNLAP - IL - 61525 |                                                        | CITIZENSHIP<br>INDIA   |
|                                                                  |                                                        |                        |
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| ADDRESS<br>5327 N CASTLEBERRY DR, PEORIA, IL-61615               |                                                        | CITIZENSHIP<br>INDIA   |
|                                                                  |                                                        |                        |