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U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 08350.6384-00



103357832

Mail Stop Assignment Recordation Services

To the Director of the U.S. Patent  
Please record the attached origin:

12-27-06

1. Name of conveying party(ies):  
Kevin Patrick DUFFY

2. Name and address of receiving party(ies):  
Name: Caterpillar Inc.

Additional name(s) of conveying party(ies) attached?  Yes  No

Internal Address:

3. Nature of conveyance:

Street Address: 100 N.E. Adams Street

Assignment

Merger

City: Peoria

Security Agreement

Change of Name

State: Illinois Zip Code: 61629-6490

Joint Research Agreement

Government Interest Assignment

Additional name(s) & Address(es) attached?  
 Yes  No

Executive Order 9494, Confirmatory License

Other:

Execution Date: December 20, 2006

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: December 20, 2006

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached?  Yes  No

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

6. Total number of applications and patents involved: 1

Name: Jin Zhang

7. Total fee (37 CFR 1.21(h) and 3.41): \$40

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

Enclosed (Please charge deficiency or credit overpayment to deposit account 06-0916)

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


Authorized to be charged to deposit account

City: Washington, D.C.

State: Zip: 20001-4413

8. Deposit Account No.: 06-0916

9. 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.

Signed:   
Jin Zhang, L.R. No. L0223

12/27/06  
Date

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

CERTIFICATE UNDER 37 CFR § 1.10 OF MAILING BY "EXPRESS MAIL"

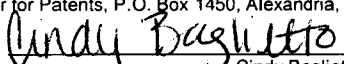
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December 27, 2006

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I hereby certify that this correspondence is being deposited with the United States Postal Services "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By:   
Cindy Baglietto

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01/06/2007 M/TAMM1  
01 FC: 8021

PATENT

REEL: 018743 FRAME: 0957

### ASSIGNMENT

WHEREAS I, the below named inventor, hereinafter referred to as Assignor, have made an invention entitled:

#### SYSTEM AND METHOD FOR BALANCING AN ENGINE DURING CYLINDER CUTOUT

for which I executed an application for United States Letters Patent concurrently herewith; and

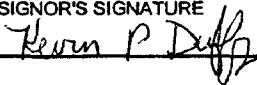
WHEREAS, **Caterpillar Inc.**, a corporation of Delaware whose post office address is 100 N.E. Adams Street Peoria, IL 61629-6490, hereinafter referred to as Assignee, is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in 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, as Assignor, 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 entire right, title, and interest in and to this invention, 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, 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 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;

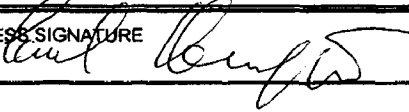
AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;


AND, I HEREBY further covenant and agree that I 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, we have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR <b>Kevin Patrick Duffy</b>	ASSIGNOR'S SIGNATURE 	DATE <b>12-20-06</b>
ADDRESS <b>1575 Sweetwater Bend</b>		CITIZENSHIP <b>United States</b>
<b>Metamora, Illinois 61548</b>		

Listing of Inventors Continued on Page 2 hereof  Yes  No

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2. WITNESS NAME CLETUS M. KINSEY JR	WITNESS SIGNATURE 	DATE 12/20/06
ADDRESS 7015 N. WILLOW-WOOD DR PEORIA, IL 61614		CITIZENSHIP United States