

U.S. PTO  
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U.S. Department of Commerce  
Patent and Trademark Office  
Customer No. 58,982  
Attorney Docket No. 08350.1031-0000

To the Director of the U.S. Patent and  
Please record the attached original d.

103435065

Mail Stop Assignment Recordation Servic

7/31/07

1. Name of conveying party(ies):  
(1) Dennis Henderson Gibson  
(2) Mark F. Sommars  
(3) Jin Hui Sun  
(4) Hoisan Kim

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: IL Zip Code: 61629-6490

Joint Research Agreement

Government Interest Assignment

Additional name(s) & Address(es) attached?

Executive Order 9494, Confirmatory License

Other:

Yes  No

Execution Date: (1) July 18, 2007  
(2) July 18, 2007  
(3) July 18, 2007  
(4) July 18, 2007

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: (1) July 18, 2007, (2) July 18, 2007, (3) July 18, 2007, (4) July 18, 2007

A. Patent Application Number(s):  
08/01/2007 HLE333 00000034 11882245  
04 FC:8021  
40.00 OP  
Additional numbers attached?

B. Patent Number(s):  
 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 (one)

Name: Roland G. McAndrews

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:   
Roland G. McAndrews

July 31, 2007  
Date

Total number of pages including cover sheet, attachments and documents: 4

**ASSIGNMENT**

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

**FUEL INJECTOR NOZZLE WITH FLOW RESTRICTING DEVICE**

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

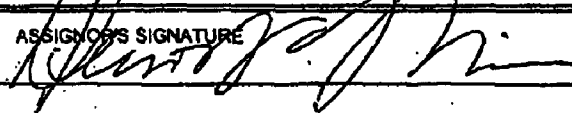
WHEREAS, Caterpillar Inc., a corporation of Delaware corporation whose post office address is 100 N.E. Adams Street, Peoria, IL 61629-6490 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, 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, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, 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 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, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to 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 Dennis Henderson Gibson	ASSIGNOR'S SIGNATURE 	DATE 7/18/07
ADDRESS 1911 E. Truitt Rd., Chillicothe, IL 61523		CITIZENSHIP U.S.A.

SOLE/JOINT INVENTION  
 (Worldwide Rights)  
 Customer No. 58,982  
 Attorney Docket No. 08350.1031-00000  
 Client Ref. No. 06-1031

1. WITNESS NAME VLADIMIR THEODOROF	WITNESS SIGNATURE <i>Theodorof</i>	DATE 07/18/07
ADDRESS 11013 N SERENE BLVD DUNLAP IL 61525		CITIZENSHIP USA

2. WITNESS NAME Mohammad S. Dar	WITNESS SIGNATURE <i>Mohammad S. Dar</i>	DATE July 18, 07
ADDRESS 5409 Haymeadow Pl. #2-A Peoria IL 61615		CITIZENSHIP PAKISTAN

1. FULL NAME OF SECOND ASSIGNOR Mark F. Sommars	ASSIGNOR'S SIGNATURE <i>Mark F. Sommars</i>	DATE 07/18/07
ADDRESS 114 Running Elk Ct., Sparland, IL 61565-9414		CITIZENSHIP U.S.A.


1. WITNESS NAME VLADIMIR THEODOROF	WITNESS SIGNATURE <i>Theodorof</i>	DATE 07/18/07
ADDRESS 11013 N SERENE BLVD. DUNLAP IL 61525		CITIZENSHIP USA

2. WITNESS NAME Mohammad Dar	WITNESS SIGNATURE <i>Mohammad S. Dar</i>	DATE July 18, 07
ADDRESS 5409 Haymeadow Pl #2-A Peoria IL 61615		CITIZENSHIP PAKISTAN

1. FULL NAME OF THIRD ASSIGNOR Jin Hui Sun	ASSIGNOR'S SIGNATURE <i>J. Sun</i>	DATE 07/18/07
ADDRESS 1404 Windham Hill Road, Bloomington, IL 61704		CITIZENSHIP China

1. WITNESS NAME ILAMMIR THEODOROF	WITNESS SIGNATURE Theodorof	DATE 07/18/07
ADDRESS 11013 N SERENE BLVD. DUNLAP IL 61525		CITIZENSHIP USA

2. WITNESS NAME Mohammad Darr	WITNESS SIGNATURE Mohammad S. Darr	DATE July 18, 07
ADDRESS 5409 Haymeadow Pl. #2-A Peoria IL 61615		CITIZENSHIP PAKISTAN

1. FULL NAME OF FOURTH ASSIGNOR Hoisan Kim	ASSIGNOR'S SIGNATURE 	DATE Jul. 18, 2007
ADDRESS 2401 W. Alta Road, #3505, Peoria, IL 61615		CITIZENSHIP South Korea (R.O.K.)

1. WITNESS NAME ILAMMIR THEODOROF	WITNESS SIGNATURE Theodorof	DATE 07/18/07
ADDRESS 11013 N SERENE BLVD DUNLAP IL 61525		CITIZENSHIP USA

2. WITNESS NAME Mohammad Darr	WITNESS SIGNATURE Mohammad S. Darr	DATE July 18, 07
ADDRESS 5409 Haymeadow Pl. #2-A Peoria IL 61615		CITIZENSHIP PAKISTAN