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FORM PTO-1595
1-31-92

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Steven Y. Tian
Additional Names attached: [ ] Yes [X] No

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

Name: Caterpillar Inc.

Internal Address: Intellectual Property Department

Street Address: 100 N.E. Adams Street

City: Peoria State: Illinois

Zip: 61629-6490

Additional name(s) & addresses attached? [ ] Yes [X] No

jc511 U.S. PTO 09/501751 02/10/00

3. Nature of Conveyance:

[X] Assignment
[ ] Security Agreement
[ ] Other

Execution Date(s):

4. Application number(s) or patent number(s):

09/501751

If this document is being filed together with a new application, the execution date of the application is 02/02/2000.

A. Patent Application No.(s) B. Patent No.(s)

Additional numbers attached? [ ] Yes [X] No

Title of Invention: PILOT ACTUATOR AND SPOOL VALVE ASSEMBLY

Attorney Docket No.: 98-834

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

Name: Eric M. Bram
CATERPILLAR INC.

Internal Address: Intellectual Property Dept.

Street Address: 100 N. E. Adams Street

City: Peoria State: IL

Zip: 61629-6490

6. Total number of applications and patents involved [1]

7. Total fee (37 CFR §3.41) $ 40.00
[ ] Enclosed
[X] Authorized to be charged to deposit account

8. Deposit account number: 03-1129
(If charged duplicate copy attached)

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.

Eric M. Bram		02/10/2000
Name of Person Signing	Signature	Date

Total number of pages comprising cover sheet, attachments, and document: [3]

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Mail document to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
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Washington, D.C. 20231

03/13/2000 VBROWN 00000095 031129
01 FC:581 40.00 CH

PATENT
REEL: 010605 FRAME: 0411

ASSIGNMENT

WHEREAS, STEVEN Y. TIAN, residing at Bloomington, Illinois, hereinafter referred to as ASSIGNOR, has invented a new and useful

PILOT ACTUATOR AND SPOOL VALVE ASSEMBLY

for which ASSIGNOR is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSIGNOR on February 8, 2000 ; 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.

STEVEN Y. TIAN — Feb. 8, 2000 (Date)

IN WITNESS OF the execution hereof by STEVEN Y. TIAN we have hereunto set our hands.

Witness (1) — 02/08/2000 (Date)

Address: 1508 Killarney Ct
Normal IL 61761

Witness (2) — 2/8/00 (Date)

Address: 833 N. Hazel
Pontiac, IL
61764