

02-03-1999



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To the Honorable Commiss
documents or copy thereof.

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Record the attached origina

1 Name of conveying party(ies):
Xinqing F. Zhang
Additional Names attached: [] Yes [X] No

2 Name and address of receiving party(es):
Name: Caterpillar Inc.
Internal Address:
Intellectual Property Department
Street Address:
100 N.E. Adams Street

3 Nature of Conveyance:
[X] Assignment
[] Security Agreement
[] Other
Execution Date(s): 01/20/99

City: Peoria State: Illinois
Zip: 61629-6490
Additional name(s) & addresses
attached? [] Yes [X] No

4 Application number(s) or patent number(s): 09/235439
If this document is being filed together with a new application, the execution date of the
application is: 01/20/99.
A. Patent Application No.(s) B. Patent No.(s)
Additional numbers attached? [] Yes [X] No
Title of Invention: ROTATIONAL SPEED SENSING DEVICE
Attorney Docket No.: 96-592

5 Name and address of party to whom correspon-
dence concerning document should be mailed:
Name: W. Bryan McPherson III
CATERPILAR 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.
W. Bryan McPherson III
Name of Person Signing Signature Date 01/22/99
Total number of pages comprising cover sheet, attachments, and document: [2]

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

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01 FC:581 40.00 CH

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

JCS30 U.S. PTO
09/235439
01/22/99

ASSIGNMENT

WHEREAS, XIAOQING F. ZHANG, residing at Peoria, Illinois, hereinafter referred to as ASSIGNOR, has invented a new and useful

ROTATIONAL SPEED SENSING DEVICE

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 January 20, 1999; 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.

Xiaoqing Zhang
XIAOQING F. ZHANG

1/20/99
Date

IN WITNESS OF the execution hereof by XIAOQING F. ZHANG we have hereunto set our hands.

Chick [Signature] 1/20/99
Witness (1) (Date)

Alan L. Ferguson 1/20/99
Witness (2) (Date)

Address: P.O. Box 305
5321 Legion Hall Rd.
Peoria, IL 61625

Address: 1608 Lincolnwood
Peoria, IL 61614