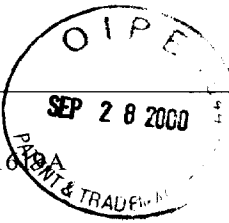


FORM PTO-100A
Expires 06/30/99
OMB 0651-0027



10-02-2000

U.S. Department of Commerce
Patent and Trademark Office
PATENT



101477398

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Execution Date
Month Day Year
 09/22/2000

Name (line 1) Brian G. McGee

Name (line 2)

Second Party

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Receiving Party

☐ Mark if additional names of receiving parties attached

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 1) Caterpillar Inc.

Name (line 2) Intellectual Property Department

Address (line 1) 100 N.E. Adams Street

Address (line 2)

Address (line 3) Peoria Illinois 61629-6490

City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

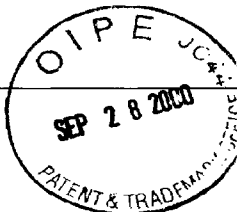
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PATENT
REEL: 011114 FRAME: 0960



Correspondent Name and Address

Area Code and Telephone Number (309) 675-4015

Name W. Bryan McPherson III

Address (line 1) Caterpillar Inc.

Address (line 2) Intellectual Property Department

Address (line 3) 100 N. E. Adams Street

Address (line 4) Peoria, IL 61629-6490

Pages

Enter the total number of pages of the attached conveyance document including any attachments.

3

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

09/616,121

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number

only if a U.S. Application Number has not been assigned.

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Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

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Deposit Account

Enclosed ☐

Deposit Account ☒

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

03-1129

Docket No. 00-323

Authorization to charge additional fees:

Yes

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No

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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. Charges to deposit account are authorized, as indicated herein.

W. Bryan McPherson III

Name of Person Signing

W. Bryan McPherson III
Signature

09/25/2000

Date

ASSIGNMENT

WHEREAS, Brian G. McGee, residing at Chillicothe, Illinois, hereinafter referred to as ASSIGNOR, has invented a new and useful

METHOD AND APPARATUS FOR CONTROLLING OVERLAP OF TWO FUEL SHOTS IN MULTI-SHOT FUEL INJECTION EVENTS

for which ASSIGNOR has made application for Letters Patent in the United States of America, such invention being described and identified by said application identified as Application No. 09/616,121, filed July 13, 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.

Brian G. McGee
BRIAN G. MCGEE

9/22/00
Date

IN WITNESS OF the execution hereof by BRIAN G. MCGEE we have hereunto set our hands.

Mark Schrade 09/22/00
Witness (1) Date

Martin D. Uhlman 9-22-00
Witness (2) Date

Address: 7150 N. Terra Vista Dr. #1704 Address: 613 W. Mt. Hawley Terr
Peoria, IL 61614 Peoria, IL 61615

ASSIGNMENT

WHEREAS, Brian G. McGee, residing at Chillicothe, Illinois, hereinafter referred to as ASSIGNOR, has invented a new and useful

METHOD AND APPARATUS FOR DETERMINING A START ANGLE FOR A FUEL INJECTION ASSOCIATED WITH A FUEL INJECTION SIGNAL

for which ASSIGNOR has made application for Letters Patent in the United States of America, such invention being described and identified by said application identified as Application No. 09/616,003, filed July 13, 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.

Brian G. McGee
BRIAN G. MCGEE

9/22/00
Date

IN WITNESS OF the execution hereof by BRIAN G. MCGEE we have hereunto set our hands.

Shane Shadrach 09/22/00
Witness (1) Date

Martin D. Mulvaney 9-22-00
Witness (2) Date

Address: 7150 N. Terra Vista Dr #1704 Address: 613 W. Mt. Hawkey Terr
Peoria, IL 61614 Peoria, IL 61615