

11/03/03

Form PTO-1595
(Rev. 10/02)
OMB No. 0651-0027 (exp 6/30/2005)

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11-10-2003

U.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Patents and Trademarks, Please Record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Ronald D. Shinogle
Mark S. Cavanagh
Ali Uludogan

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

2. Name and address of receiving party(ies)

Name: Caterpillar, Inc. Patent Department

Internal Address: _____

Street Address: 100 NE Adams Street

City: Peoria State: IL Zip: 61629

Additional Name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: 07-29-03

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

10/700182

If this document is being filed together with a new application, the execution date of the application is: 07-29-03

A. Patent Application No.(s)

B. Patent No.(s)

11/06/2003 KBETEMAI 00000025 10700182

01 FC:8021

40.00 OP

Additional numbers attached? Yes No

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

Name: Michael B. McNeil

Internal Address: Liell & McNeil Attorneys PC

Street Address: P.O. Box 2417

City: Bloomington State: IN Zip: 47402

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

500226

(Attach duplicate copy of this page if paying by deposit account)

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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.

Michael B. McNeil

Name of Person Signing

Signature

10-31-03

Date

Total number of pages including cover sheet, attachments, and documents: 1

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

17858 U.S. PTO
10/700182



110303

ASSIGNMENT

WHEREAS, Ronald D. Shinogle, residing at Peoria, Illinois, hereinafter referred to ASSIGNOR has invented together with Mark S. Cavanagh and Ali Uludogan a new and useful

INJECTION OF FUEL VAPOR AND AIR MIXTURE INTO AN ENGINE CYLINDER

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 July 29, 2003; 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.

Ronald D. Shinogle
RONALD D. SHINOGLA

7-29-03
Date

IN WITNESS OF the execution hereof by RONALD D. SHINOGLA we have hereunto set our hands.

Edward R. Gillis 7/29/03
Witness (1) Date
Address: 3 Valley Brook Ct.
Bloomington, IL 61704

Sean O. Cornell 7/29/03
Witness (2) Date
Address: 30411 N. 2280 East Rd
Gridley, IL 61744

ASSIGNMENT

WHEREAS, Mark S. Cavanagh, residing at Bloomington, Illinois, hereinafter referred to ASSIGNOR has invented together with Ronald D. Shinogle and Ali Uludogan a new and useful

INJECTION OF FUEL VAPOR AND AIR MIXTURE INTO AN ENGINE CYLINDER

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 October 19, 2003; 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.

Mark S. Cavanagh
MARK S. CAVANAGH

10-14-03
Date

IN WITNESS OF the execution hereof by MARK S. CAVANAGH we have hereunto set our hands.

[Signature] 10/14/03
Witness (1) Date
Address: 707 IRONWOOD CC. DRIVE
NORMAL, IL 61761

[Signature] 10/14/03
Witness (2) Date
Address: 2001 TRACY DR, #6
BLOOMINGTON, IL, 61704

ASSIGNMENT

WHEREAS, Ali Uludogan, residing at Peoria, Illinois, hereinafter referred to ASSIGNOR has invented together with Mark S. Cavanagh and Ronald D. Shinogle a new and useful

INJECTION OF FUEL VAPOR AND AIR MIXTURE INTO AN ENGINE CYLINDER

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 5/7/2003; 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.


ALI ULUDOGAN

5/7/2003
Date

IN WITNESS OF the execution hereof by ALI ULUDOGAN we have hereunto set our hands.

Thomas M Allen
Witness (1) Date 5/7/03
Address: 3734 N. Harmon Ave.
Peoria, IL 61614

Robert J. Fells 5/7/03
Witness (2) Date
Address: 5420 S. Airport Rd
Bartowville, IL 61607