

06-27-2008



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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

6.20.08

U.S. PTO

12214623
062008

1. Name of conveying party(ies)

Lifeng Wang
Koti Padarthy
Gengxun Gurley
Kyle Enzinger

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

2. Name and address of receiving party(ies)

Name: Caterpillar Inc.

Internal Address: _____

Street Address: 100 NE Adams Street

City: Peoria

State: Illinois

Country: US Zip: 61629

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 06-17-08; 06-17-08; 06-17-08; 06-18-08

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Michael B. McNeil

Internal Address: _____

Street Address: 511 S. Madison Street

P.O. Box 2417

City: Bloomington

State: Indiana Zip: 47402

Phone Number: 812-333-5355

Fax Number: 812-333-3173

Email Address: _____

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 500226

Authorized User Name Michael B. McNeil

9. Signature:

Michael B. McNeil
Signature

6-20-08
Date

Michael B. McNeil

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

ASSIGNMENT

WHEREAS, Lifeng Wang, residing at Dunlap, Illinois, hereinafter referred to as ASSIGNOR has invented together with Koti R. Padarthy, Gengxun K. Gurley and Kyle E. Enzinger a new and useful

Z ORIFICE FEATURE FOR MECHANICALLY ACTUATED FUEL INJECTOR

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 6-17-08; 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.

Lifeng Wang 06/17/2008
LIFENG WANG Date

IN WITNESS OF the execution hereof LIFENG WANG we have hereunto set our hands.

Jay Venkataraghavan 06/17/2008 *Dianqi Fang* 06/17/2008
Witness (1) Date Witness (2) Date

Address: 11101 N. SERENE BLVD. Address: _____

DUNLAP IL, 61525 10712 N. Trailside Ln.

Dunlap, IL 61525

08-152

ASSIGNMENT

WHEREAS, Koti R. Padarthy, residing at Edwards, Illinois, hereinafter referred to as ASSIGNOR has invented together with Lifeng Wang, Gengxun K. Gurley and Kyle E. Enzinger a new and useful

Z ORIFICE FEATURE FOR MECHANICALLY ACTUATED FUEL INJECTOR

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 6-17-08; 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.

Koti R. Padarthy
KOTI R. PADARTHY

06/17/2008
Date

IN WITNESS OF the execution hereof KOTI R. PADARTHY we have hereunto set our hands.

Lifeng Wang 6/17/08
Witness (1) Date

Zhang Jun 6/17/08
Witness (2) Date

Address: 2417 W. Brooklyn Pl.
Dunlap, IL 61525

Address: 431 S French Dr
Dunlap, IL 61525

08-152

ASSIGNMENT

WHEREAS, Gengxun K. Gurley, residing at Peoria, Illinois, hereinafter referred to as ASSIGNOR has invented together with Lifeng Wang, Koti R. Padarthy and Kyle E. Enzinger a new and useful

Z ORIFICE FEATURE FOR MECHANICALLY ACTUATED FUEL INJECTOR

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 6-17-08; 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;

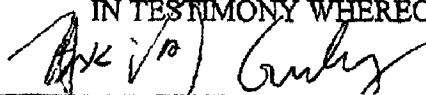
1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue 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.



GENGXUN K. GURLEY

06/17/2008

Date

IN WITNESS OF the execution hereof GENGXUM K. GURLEY we have hereunto set our hands.

Witness (1) Zhenlong Xu Date 6/17/08
Address: _____
6812 N. Kimberly Dr
Peoria IL 61614

Witness (2) Dianqi Feng Date 06/17/08
Address: _____
10712 N. Trailside Ln
Dunlap. IL 61525

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