

10-07-2008



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To the Director of the U.S. Patent and Trademark Office, and to the appropriate documents or the new address(es) below.

9-26-08

U.S. PTO

12286005
092608

1. Name of conveying party(ies)

Jayaraman Venkataraghavan
Amy H. Hess
Shriprasad Lakhapati
Michael C. Long

2. Name and address of receiving party(ies)

Name: Caterpillar Inc.

Internal Address: _____

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

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

Execution Date(s) 4-18-08; 4-21-08; 4-18-08; 4-18-08

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

Street Address: 100 NE Adams St.

City: Peoria

State: Illinois

Country: U.S. Zip: 61629

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

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: IN Zip: 47403

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 50000015 12205005

Authorized User Name Jonathan F. Yates 40.00 OF

9. Signature:

Jonathan F. Yates
Signature

9-26-08
Date

Jonathan F. Yates

Name of Person Signing

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

5

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

WHEREAS, Michael C. Long, residing at Metamora, Illinois, hereinafter referred to as ASSIGNOR has invented together with Amy M. Hess, Stephen R. Lewis, Jayaraman Venkataraghavan and Shriprasad Lakhapati a new and useful

ENGINE HAVING FUEL INJECTOR WITH ACTUATOR COOLING SYSTEM AND METHOD

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 4/18/08; 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.

Michael C. Long
MICHAEL C. LONG

4/18/2008
Date

IN WITNESS OF the execution hereof by MICHAEL C. LONG we have hereunto set our hands.

Stephen R. Lewis 4/18/2008
Witness (1) Date

Address: 2218 Chase Ln
Normal, IL 61761

Shriprasad Lakhapati 4/18/2008
Witness (2) Date

Address: 1316 N. Elmwood Ave
Peoria, IL - 61606

ASSIGNMENT

WHEREAS, Amy M. Hess, residing at Metamora, Illinois, hereinafter referred to as ASSIGNOR has invented together with Michael C. Long, Stephen R. Lewis, Jayaraman Venkataraghavan and Shriprasad Lakhapati a new and useful

ENGINE HAVING FUEL INJECTOR WITH ACTUATOR COOLING SYSTEM AND METHOD

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 4/21/08; 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;

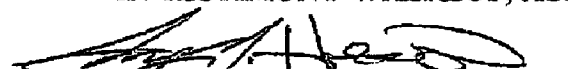
1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue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


AMY M. HESS

4/21/08
Date

IN WITNESS OF the execution hereof by AMY M. HESS we have hereunto set our hands.


Witness (1) 4/22/08
Date
Address: _____


Witness (2) 4/22/08
Date
Address: _____

1007 Highland Ct
Granoville Hill, IL 61548

211 New Salem Dr.
Canton, IL 61520

ASSIGNMENT

WHEREAS, Jayaraman Venkataraghavan, residing at Dunlap, Illinois, hereinafter referred to as ASSIGNOR has invented together with Amy M. Hess, Michael C. Long, Stephen R. Lewis and Shriprasad Lakhapati a new and useful

ENGINE HAVING FUEL INJECTOR WITH ACTUATOR COOLING SYSTEM AND METHOD

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 4/18/08; 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.

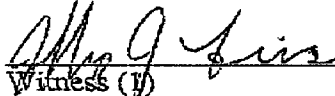


4/18/08

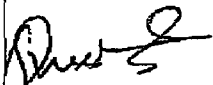
JAYARAMAN VENKATARAGHAVAN

Date

IN WITNESS OF the execution hereof by JAYARAMAN VENKATARAGHAVAN we have hereunto set our hands.

 4/18/08
Witness (1) Date

Address: 2218 Chase Ln
Normal, IL 61761

 4/18/2008
Witness (2) Date

Address: 1316, N. Elmwood Ave
Peoria, IL - 61606

ASSIGNMENT

WHEREAS, Shriprasad Lakhapati, residing at Peoria, Illinois, hereinafter referred to as ASSIGNOR has invented together with Amy M. Hess, Michael C. Long, Stephen R. Lewis and Jayaraman Venkataraghavan a new and useful

ENGINE HAVING FUEL INJECTOR WITH ACTUATOR COOLING SYSTEM AND METHOD

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 18 APRIL 2008; 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.

Shriprasad Lakhapati

SHRIPRASAD LAKHAPATI

18 APRIL 2008

Date

IN WITNESS OF the execution hereof by SHRIPRASAD LAKHAPATI we have hereunto set our hands.

Amy M. Hess 4/18/2008
Witness (1) Date

Address: 2218 Chase Ln
Normal, IL 61761

Michael C. Long 4/18/2008
Witness (2) Date

Address: 1316 N. Elmwood Ave
Peoria, IL - 61606

07-1059

PATENT