

12-05-2007

Form PTO-1595 (Rev. 07/05)  
OMB No. 0651-0027 (exp. 6/30/2008)U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office103466168  
PATENTS ONLY

ET

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

## 1. Name of conveying party(ies)

Jeffrey D. Klein  
Richard Thompson  
Timothy Davis  
Clayton Walenta  
Michael S. ThorntonAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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

Execution Date(s) 11-13-07; 10-22-07; 10-30-07; 11-27-07;

- ☒ Assignment ☐ Merger 10-30-07
- ☐ Security Agreement ☐ Change of Name
- ☐ Joint Research Agreement
- ☐ Government Interest Assignment
- ☐ Executive Order 9424, Confirmatory License
- ☐ Other \_\_\_\_\_

## 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

## 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) &amp; 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:

*Kelly J. Smith*  
Signature11/27/2007  
Date

Kelly J. Smith

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 11986816 6

Documents to be recorded (including cover sheet) should be faxed to 571-273-1440, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450PATENT  
REEL: 020215 FRAME: 0804

# ASSIGNMENT

WHEREAS, Jeffrey D. Klein, residing at Princeville, Illinois, hereinafter referred to as ASSIGNOR has invented together with Richard Thompson., Timothy Davis, Clayton Walenta and Michael S. Thornton a new and useful

## SYSTEM AND METHOD FOR DETECTING MISASSEMBLY OF AN EXHAUST AFTERTREATMENT SYSTEM OF A MACHINE

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 11-13-07; 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.

Jeffrey D. Klein  
JEFFREY D. KLEIN

11-13-07  
Date

IN WITNESS OF the execution hereof by JEFFREY D. KLEIN we have hereunto set our hands.

Robert L. Walenta 11/13/07  
Witness (1) Date  
Address: 6708 N. Chateau Pl  
Peoria, IL 61615

Harvey C. Clegg 11/13/07  
Witness (2) Date  
Address: 4115 Brookham Ct  
Chillicothe IL 61523

ASSIGNMENT

WHEREAS, Richard Thompson, residing at Peoria, Illinois, hereinafter referred to as ASSIGNOR has invented together with Timothy Davis, Clayton Walenta, Michael S. Thornton and Jeffrey D. Klein a new and useful

SYSTEM AND METHOD FOR DETECTING MISASSEMBLY OF AN EXHAUST  
AFTERTREATMENT SYSTEM OF A MACHINE

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 10-22-07; 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.

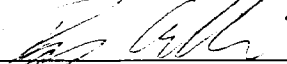
4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

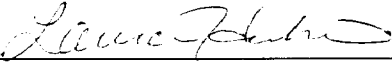
IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

  
RICHARD THOMPSON

10-22-07  
Date

IN WITNESS OF the execution hereof by RICHARD THOMPSON we have hereunto set our hands.

 10/22/07  
Witness (1) Date  
Address: 225 S. MINNESOTA  
MORTON, IL 61550

 10/22/07  
Witness (2) Date  
Address: 1204 N. Devonwood  
Dundlap, IL 61525

ASSIGNMENT

WHEREAS, Timothy Davis, residing at Washington, Illinois, hereinafter referred to as ASSIGNOR has invented together with Clayton Walenta, Michael S. Thornton, Jeffrey D. Klein and Richard Thompson a new and useful

SYSTEM AND METHOD FOR DETECTING MISASSEMBLY OF AN EXHAUST  
AFTERTREATMENT SYSTEM OF A MACHINE

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 10/29/07; 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:

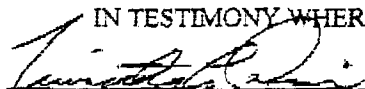
1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue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

  
TIMOTHY DAVIS

10/30/07  
Date

IN WITNESS OF the execution hereof by TIMOTHY DAVIS we have hereunto set our hands.

  
Witness (1) 10/30/07  
Date  
Address: 916 W RAVEN RD  
PEORIA, IL 61615

  
Witness (2) 11/17/07  
Date  
Address: 11517 DUN MOORE  
DUNLAP, IL 61525

ASSIGNMENT

WHEREAS, Clayton Walenta, residing at Peoria, Illinois, hereinafter referred to as ASSIGNOR has invented together with Michael S. Thornton, Jeffrey D. Klein, Richard Thompson and Timothy Davis a new and useful

SYSTEM AND METHOD FOR DETECTING MISASSEMBLY OF AN EXHAUST  
AFTERTREATMENT SYSTEM OF A MACHINE

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 27 Nov 2007; 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.

Clayton Walenta  
CLAYTON WALENTA

27 Nov 2007  
Date

IN WITNESS OF the execution hereof by CLAYTON WALENTA we have hereunto set our hands.

Ronise J. Bingham  
Witness (1)  
Address: 1853 US HWY 150 E  
Dahinda, IL 61428

Date 11-27-07

Randy Gail  
Witness (2)  
Address: 8638 N Picture Ridge Rd  
Peoria, IL 61615

Date 11-27-07

## ASSIGNMENT

WHEREAS, Michael S. Thornton, residing at Peoria, Illinois, hereinafter referred to as ASSIGNOR has invented together with Jeffrey D. Klein, Richard Thompson, Timothy Davis and Clayton Walenta a new and useful

### SYSTEM AND METHOD FOR DETECTING MISASSEMBLY OF AN EXHAUST AFTERTREATMENT SYSTEM OF A MACHINE

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 10/30/07; 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.

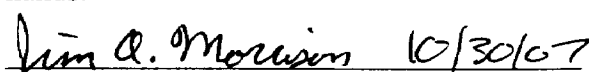
4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.


IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

  
MICHAEL S. THORNTON

10/30/07  
Date

IN WITNESS OF the execution hereof by MICHAEL S. THORNTON we have hereunto set our hands.

  
Witness (1) 10/30/07  
Date  
Address: 58 Waupeke Court  
Spartan, IL 61565

  
Witness (2) 10/30/07  
Date  
Address: 701 S. 1st St. Peoria, IL 61607