

RE

10-27-2003

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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):

Kartik G. Iyer
Owen C. Kolstad
Cornelius N. Opris

10-15-03

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

031088 U.S. PTO
10/686468

101503

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: 10-08-03

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

20686468

If this document is being filed together with a new application, the execution date of the application is: 10-08-03

A. Patent Application No.(s)

B. Patent No.(s)

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)

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

Date

10-15-03

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

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

ASSIGNMENT

WHEREAS, Kartik G. Iyer, residing at Novi, Michigan, hereinafter referred to ASSIGNOR has invented together with Owen C. Kolstad, Cornelius N. Opris a new and useful

EFFICIENTLY REGENERATED PARTICLE TRAP FOR AN INTERNAL COMBUSTION
ENGINE AND METHOD OF OPERATING SAME

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 10/08/03; 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.

K. G. Iyer
KARTIK G. IYER

10/08/03
Date

IN WITNESS OF the execution hereof by KARTIK G. IYER we have hereunto set our hands.

David M. Matta 10/08/2003
Witness (1) Date
Address: 37167 N Orchard Cr
Westland, MI 48186

Owen C. Kolstad 10/08/03
Witness (2) Date
Address: 3176 HIDEAWAY BEACH DR
BRIGHTON, MI 48114

ASSIGNMENT

WHEREAS, Owen C. Kolstad, residing at Peoria, Illinois, hereinafter referred to ASSIGNOR has invented together with Kartik G. Iyer, Cornelius N. Opris a new and useful

EFFICIENTLY REGENERATED PARTICLE TRAP FOR AN INTERNAL COMBUSTION ENGINE AND METHOD OF OPERATING SAME

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 September 26, 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.

Owen C. Kolstad
OWEN C. KOLSTAD

9/26/03
Date

IN WITNESS OF the execution hereof by OWEN C. KOLSTAD we have hereunto set our hands.

Richard Crandall 9/26/2003
Witness (1) Date
Address: 1025 Johnson
Morton, IL 61550

Kenneth A. Dillards 9/26/2003
Witness (2) Date
Address: 5902 Jackson Cemetery Rd
Dunlap IL 61525

ASSIGNMENT

WHEREAS, Cornelius N. Opris, residing at Peoria, Illinois, hereinafter referred to as ASSIGNOR has invented together with Owen C. Kolstad, Kartik G. Iyer a new and useful

EFFICIENTLY REGENERATED PARTICLE TRAP FOR AN INTERNAL COMBUSTION ENGINE AND METHOD OF OPERATING SAME

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 _____; 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;

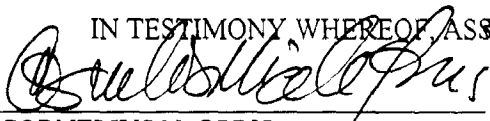
1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue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

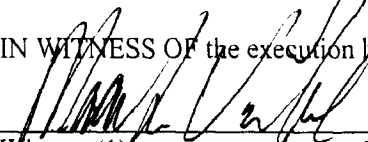
3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc.

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.

 9/25/2003
CORNELIUS N. OPRIS Date

IN WITNESS OF the execution hereof by CORNELIUS N. OPRIS we have hereunto set our hands.

 9/25/03 Dennis Endig 9/25/03
Witness (1) Date Witness (2) Date
Address: 308 BITTERSWEET AVE. Address: _____
PEORIA IL 61614 419 W. CLYBOURN CT
PEORIA, IL 61614

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