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102888329

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
William J. Rodier
James D. Peltier
Udo Schlemmer-Kelling
Jürgen Nagel

Additional name 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: 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: 09-20-04; 11-03-04; 09-03-04; 09-03-04;
09-03-04

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

If this document is being filed together with a new application, the execution date of the application is: 09-20-04;11-03-04;

A. Patent Application No.(s)

B. Patent No.(s)

09-03-04;09-03-04;
09-03-04

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:

11/23/2004 6TON11 00000066 10988141

01 FC:8021

40.00 DP

Street Address: 511 S. Madison Street

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)

DO NOT USE THIS SPACE

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

Michael B. McNeil
Signature

11-12-04
Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Alexandria, VA 22313-1450

70511

2278 U.S. PTO
10/988141



111204

ASSIGNMENT

WHEREAS, Ronald D. Shinogle, residing at 1023 W CENTENNIAL, PEORIA, IL hereinafter referred to ASSIGNOR has invented together with William J. Rodier, James D. Peltier, Udo Schlemmer-Kelling, and Jürgen Nagel a new and useful

ELECTRONIC FLOW CONTROL VALVE

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 9-20-04; 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 9-20-04
RONALD D. SHINOGLER Date

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

Dennis A. [Signature] 9-20-04
Witness (1) Date
Address: 5908 N. prospect
Peoria, IL 61614
Robert Z Miller 9-20-04
Witness (2) Date
Address: 730 Breckenridge Dr
Quincy, IL 61525

ASSIGNMENT

WHEREAS, William J. Rodier, residing at BOS Holland, Metamora IL, hereinafter referred to ASSIGNOR has invented together with Ronald D. Shinogle, James D. Peltier, Udo Schlemmer-Kelling, and Jürgen Nagel a new and useful

ELECTRONIC FLOW CONTROL VALVE

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 11-3-04; 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.

William J. Rodier 11/3/04
WILLIAM J. RODIER Date

IN WITNESS OF the execution hereof by WILLIAM J. RODIER we have hereunto set our hands.

Feyel Siler 11/3/04 David J. Tolson 11/3/04
Witness (1) Date Witness (2) Date
Address: 1504 KINGSBURY RD Address: 1322 LINDSEY LANE
WASHINGTON IL 61571 NORMIL, IL 61761

ASSIGNMENT

Germany

WHEREAS, James D. Peltier, residing at Hdeneck 13, 24161 Altenholz hereinafter referred to ASSIGNOR has invented together with Ronald D. Shinogle, William J. Rodier, Udo Schlemmer-Kelling, and Jürgen Nage! a new and useful

ELECTRONIC FLOW CONTROL VALVE

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 3 September 2004; 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.

J. D. Peltier
JAMES D. PELTIER
3 September 2004
Date

IN WITNESS OF the execution hereof by JAMES D. PELTIER we have hereunto set our hands.

A. Ernd 03.09.2004 M. Rutschmann 3-9-04
Witness (1) Date Witness (2) Date
Address: Schönburg Nr. 6 Address: Rosengarten 4
17335 Strasburg 24248 Mönkebarg
Germany Germany

ASSIGNMENT

WHEREAS, Udo Schlemmer-Kelling, residing at 24113 Hoffsee Germany
Im Wilsangrund 15, hereinafter referred to ASSIGNOR has invented together with Ronald D. Shinogle, William J. Rodier, James D. Peltier, and Jürgen Nagel a new and useful

ELECTRONIC FLOW CONTROL VALVE

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 2.3.04; 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.

Udo Schlemmer-Kelling 3.9.04
UDO SCHLEMMER-KELLING Date

IN WITNESS OF the execution hereof by UDO SCHLEMMER-KELLING we have hereunto set our hands.

M. Pautsch 3-9-04 A. Ernst 03.09.2004
Witness (1) Date Witness (2) Date
Address: Rosengarten Address: Schönburg Nr 6
24248 Mönkeberg 17335 Strasburg
Germany

ASSIGNMENT

WHEREAS, Jürgen Nagel, residing at Fasanenweg 2a Germany 24214 Gellert, hereinafter referred to as ASSIGNOR has invented together with Ronald D. Shinogle, William J. Rodier, James D. Peltier, and Udo Schlemmer-Kelling a new and useful

ELECTRONIC FLOW CONTROL VALVE

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 7 September 2004; 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.

J. Nagel 03.09.2004
JÜRGEN NAGEL Date

IN WITNESS OF the execution hereof by JÜRGEN NAGEL we have hereunto set our hands.

A. Bernd 03.09.2004 M. Guntter
Witness (1) Date Witness (2) Date
Address: Schönburg Nr. 6 Address: Rosengarten 4
17335 Strasburg Germany 24245 Hübkeberg Germany