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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): 6-15-04
Kevin J. Lueschow
Jeffrey J. Simmons

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

U.S. PTO
10/868462
22141



061504

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: 6/1/04, 6/1/04

Street Address: 100 NE Adams Street
City: Peoria State: IL Zip: 61629
Additional Name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s): 10868462
If this document is being filed together with a new application, the execution data of the application is: 6/1/04, 6/1/04
A. Patent Application No.(s)
B. Patent No.(s)

Additional numbers attached? Yes No

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)

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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 [Signature] 6-15-04
Name of Person Signing Signature Date

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
Alexandria, VA 22313-1450

06/22/2004 M5ETACHE 00000214 10868462

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ASSIGNMENT

WHEREAS, Jeffrey J. Simmons, residing at Washington, Illinois, hereinafter referred to ASSIGNOR has invented together with Kevin J. Lueschow a new and useful

METHOD FOR DETECTING AN ABNORMAL LIFTING CYCLE AND WORK MACHINE USING 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 6-1-04; 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;

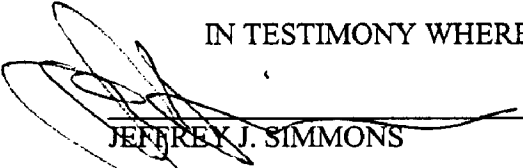
1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue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



JEFFREY J. SIMMONS

6/1/04

Date

IN WITNESS OF the execution hereof by JEFFREY J. SIMMONS we have hereunto set our hands.

László Naszodi

Witness (1) Date
Address: 7150 N Terra Vista Dr
1305 Peoria, IL 61614

Jeffrey J. Ryan 6/1/04

Witness (2) Date
Address: 1516 Shellbark Court
Washington, IL 61571

ASSIGNMENT

WHEREAS, Kevin J. Lueschow, residing at Elmwood, Illinois, hereinafter referred to ASSIGNOR has invented together with Jeffrey J. Simmons a new and useful

METHOD FOR DETECTING AN ABNORMAL LIFTING CYCLE AND WORK MACHINE USING 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 6-1-09; 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.

Kevin Lueschow
KEVIN J. LUESCHOW

6/1/09
Date

IN WITNESS OF the execution hereof by KEVIN J. LUESCHOW we have hereunto set our hands.

[Signature] 01 JUN 2009
Witness (1) Date
Address: 3124 N. North St.
Peoria, IL 61604

Paul Ring 01 JUN 2009
Witness (2) Date
Address: 1624 W. Timberdale drive
DUNLAP IL 61525