

4/3/02 **RECORDED**

04-12-2002



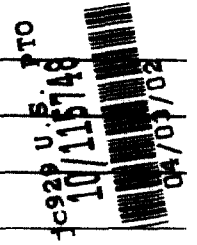
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To the Honorable Commissioner of Patents and Trademarks original documents or copy thereof.

1. Name of conveying party(ies):
David E. Martin
Scott A. Leman
Ronald D. Shinogle
Sean O. Cornell
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



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

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution data of the application is: 03-21-02
A. Patent Application No.(s)
B. Patent No.(s)
Additional numbers attached? Yes No

10/115748

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
Name of Person Signing

[Signature]
Signature

04-03-02
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
Washington, D.C. 20231

04/11/2002 LNWELER 0000240 10115746 40.00 01 FC:561

ASSIGNMENT

WHEREAS, David E. Martin, residing at Normal, Illinois, hereinafter referred to ASSIGNOR has invented together with Scott A. Leman, Ronald D. Shinogle and Sean O. Cornell a new and useful

IN-CHASSIS ENGINE COMPRESSION RELEASE BRAKE DIAGNOSTIC TEST AND ELECTRONIC CONTROL MODULE USING THE SAME

for which ASSIGNOR has made or will make application for Letters Patent of the United States; 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.

David E Martin
DAVID E. MARTIN

3-21-02
Date

IN WITNESS OF the execution hereof by DAVID E. MARTIN we have hereunto set our hands.

Steph Key 3/21/02
Witness (1) Date
Address: 1711 B Linda Lane
Normal IL 61761

Homa Ajich 3/21/02
Witness (2) Date
Address: 2737 Rainbow Ave
Bloomington, IL 61704

ASSIGNMENT

WHEREAS, Scott A. Leman, residing at Eureka, Illinois, hereinafter referred to ASSIGNOR has invented together with Ronald D. Shinogle, Sean O. Cornell and David E. Martin a new and useful

IN-CHASSIS ENGINE COMPRESSION RELEASE BRAKE DIAGNOSTIC TEST AND ELECTRONIC CONTROL MODULE USING THE SAME

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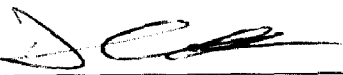
4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

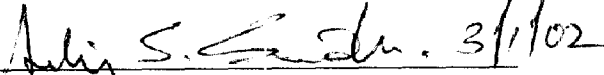

SCOTT A. LEMAN

3-1-02
Date

IN WITNESS OF the execution hereof by SCOTT A. LEMAN we have hereunto set our hands.


Witness (1) 3/1/02
Date

Address: 40 Lakeview Dr
Fairbury, IL 61739


Witness (2) 3/1/02
Date

Address: 3402 Windmill Rd.
Bloomington IL 61704

ASSIGNMENT

WHEREAS, Ronald D. Shinogle, residing at Peoria, Illinois, hereinafter referred to ASSIGNOR has invented together with Scott A. Leman, Sean O. Cornell and David E. Martin a new and useful

IN-CHASSIS ENGINE COMPRESSION RELEASE BRAKE DIAGNOSTIC TEST AND ELECTRONIC CONTROL MODULE USING THE SAME

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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
RONALD D. SHINOGLA

3-4-02
Date

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

David E. Martin 3-4-02
Witness (1) Date
Address: 1411 O'Reilly Ct
Normal IL 61761

Vail R. Knight
Witness (2) Date
Address: 2290 Hwy 18 East
Sioux Falls, IL 61364

ASSIGNMENT

WHEREAS, Sean O. Cornell, residing at Gridley, Illinois, hereinafter referred to ASSIGNOR has invented together with Scott A. Leman, Ronald D. Shinogle and David E. Martin a new and useful

IN-CHASSIS ENGINE COMPRESSION RELEASE BRAKE DIAGNOSTIC TEST AND ELECTRONIC CONTROL MODULE USING THE SAME

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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.

Sean Cornell
SEAN O. CORNELL

3/26/02
Date

IN WITNESS OF the execution hereof by SEAN O. CORNELL we have hereunto set our hands.

Theodor Vladimirovich 03/26/02
Witness (1) Date
Address: 5 PARK SHORES
BLOOMINGTON IL 61701

[Signature] 3/26/02
Witness (2) Date
Address: 1230 Bancroft Dr.
Bloomington, IL 61704