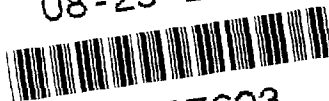




08-29-2001



101827623

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

R.

**NOTIFICATION FORM COVER SHEET  
PATENTS ONLY**

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

**Submission Type**

☒ New  
☐ Resubmission (Non-Recordation)  
Document ID#   
☐ Correction of PTO Error  
Reel #  Frame #   
☐ Corrective Document  
Reel #  Frame #

**Conveyance Type**

☒ Assignment ☐ Security Agreement  
☐ License ☐ Change of Name  
☐ Merger ☐ Other   
**U.S. Government**  
(For Use ONLY by U.S. Government Agencies)  
☐ Departmental File ☐ Secret File

**Conveying Party(ies)**

☒ Mark if additional names of conveying parties attached  
Execution Date  
Month Day Year  
07/19/2001

Name (line 1) David A. Cusac

Name (line 2)

**Second Party**

Name (line 1) Chuong Q. Dam

Execution Date  
Month Day Year  
07/19/2001

Name (line 2)

**Receiving Party**

☐ Mark if additional names of receiving parties attached

Name (line 1) Caterpillar Inc.

Name (line 2) Intellectual Property Department

Address (line 1) 100 N.E. Adams Street

Address (line 2)

Address (line 3) Peoria

City

Illinois

State/Country

61629-6490

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

**Domestic Representative Name and Address**

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

**FOR OFFICE USE ONLY**

08/28/2001 AAHMD1 00000076 031129 09843268

01 FC:581 40.00 CH

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

**PATENT**  
**REEL: 012106 FRAME: 0504**

**Correspondent Name and Address**

Area Code and Telephone Number (309) 675-5214

Name Robert J. Hampsch

Address (line 1) Caterpillar Inc.

Address (line 2) Intellectual Property Department

Address (line 3) 100 N. E. Adams Street

Address (line 4) Peoria, IL 61629-6490

**Pages**

Enter the total number of pages of the attached conveyance document including any attachments.

# 10

**Application Number(s) or Patent Number(s)**☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

09/843,268

**Patent Number(s)**If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**Enter PCT application number  
only if a U.S. Application Number  
has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of properties involved.

# 1

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:  
Deposit AccountEnclosed ☐Deposit Account ☒

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

# 03-1129

Docket No. 97-146\_1

Authorization to charge additional fees:

Yes

☒

No

☐**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. Charges to deposit account are authorized, as indicated herein.*

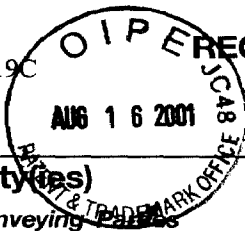
Robert J. Hampsch

Name of Person Signing

Signature

08/09/2001

Date



RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

**Conveying Party(ies)**

☒ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) Mark G. Fulford

Execution Date  
Month Day Year  
07/16/2001

Name (line 2)

Execution Date  
Month Day Year

Name (line 1) Paul A. Gamble

07/19/2001

Name (line 2)

Execution Date  
Month Day Year

Name (line 1) Robert E. Hawbaker

07/11/2001

Name (line 2)

**Receiving Party(ies)**

☐ Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

**Application Number(s) or Patent Number(s)**

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

**Patent Number(s)**



RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY

U.S. Department of Commerce  
Patent and Trademark Office  
PATENT

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) Rebecca M. Zick

Execution Date  
Month Day Year

07/13/2001

Name (line 2)

Execution Date  
Month Day Year

Name (line 1)

Name (line 2)

Name (line 1)

Execution Date  
Month Day Year

Name (line 2)

Receiving Party(ies)

☐ Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)



## ASSIGNMENT

WHEREAS, DAVID A. CUSAC, residing at East Peoria, Illinois, hereinafter referred to as ASSIGNOR has invented together with Chuong Q. Dam, Mark G. Fulford, Paul A. Gamble, Robert E. Hawbaker and Rebecca M. Zick a new and useful

### A PRESSURE CONTROL VALVE HAVING ENHANCED DURABILITY

for which ASSIGNOR has made application for Letters Patent in the United States of America, such invention being described and identified by said application identified as Application No. 09/843,268, filed April 26, 2001; 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.

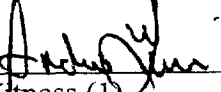
4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

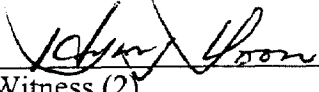
IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

  
\_\_\_\_\_  
DAVID A. CUSAC

19-JULY-2001  
\_\_\_\_\_  
Date

IN WITNESS OF the execution hereof by DAVID A. CUSAC we have hereunto set our hands.

  
\_\_\_\_\_  
Witness (1) 19-JULY-01  
\_\_\_\_\_  
Date  
Address: 1318 W. FREDCRIST  
\_\_\_\_\_  
PEORIA, IL  
\_\_\_\_\_  
61606

  
\_\_\_\_\_  
Witness (2) 7/17/2001  
\_\_\_\_\_  
Date  
Address: 5519 N. Deerfield Ct  
\_\_\_\_\_  
Peoria, IL 61615  
\_\_\_\_\_

## ASSIGNMENT

WHEREAS, CHUONG Q. DAM, residing at San Jose, California, hereinafter referred to as ASSIGNOR has invented together with David A. Cusac, Mark G. Fulford, Paul A. Gamble, Robert E. Hawbaker and Rebecca M. Zick a new and useful

### A PRESSURE CONTROL VALVE HAVING ENHANCED DURABILITY

for which ASSIGNOR has made application for Letters Patent in the United States of America, such invention being described and identified by said application identified as Application No. 09/843,268, filed April 26, 2001; 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.

Chuong Q. Dam  
CHUONG Q. DAM

7/19/01  
Date

IN WITNESS OF the execution hereof by CHUONG Q. DAM we have hereunto set our hands.

Yun-Ting 7/19/01  
Witness (1) Date  
Address: 444 Saratoga Ave. #32k  
Santa Clara, CA 95050

Donghun Lee 7/19/01  
Witness (2) Date  
Address: 4260 ALBANY DR #112  
SAN JOSE, CA 95129

## ASSIGNMENT

WHEREAS, MARK G. FULFORD, residing at Peoria, Illinois, hereinafter referred to ASSIGNOR has invented together with David A. Cusac, Chuong Q. Dam, Paul A. Gamble, Robert E. Hawbaker and Rebecca M. Zick a new and useful

### A PRESSURE CONTROL VALVE HAVING ENHANCED DURABILITY

for which ASSIGNOR has made application for Letters Patent in the United States of America, such invention being described and identified by said application identified as Application No. 09/843,268, filed April 26, 2001; 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.

Mark G. Fulford  
MARK G. FULFORD

July 16, 2001  
Date

IN WITNESS OF the execution hereof by MARK G. FULFORD we have hereunto set our hands.

David J. Rooker 7-16-01  
Witness (1) Date  
Address: 409 Highview Dr.  
Eureka, IL 61530

Henry C. Carstensen 7/16/01  
Witness (2) Date  
Address: 7150 N. Terra Vista #110  
Peoria, IL 61614

## ASSIGNMENT

WHEREAS, PAUL A. GAMBLE, residing at Peoria, Illinois, hereinafter referred to as ASSIGNOR has invented together with David A. Cusac, Chuong Q. Dam, Mark G. Fulford, Robert E. Hawbaker and Rebecca M. Zick a new and useful

### A PRESSURE CONTROL VALVE HAVING ENHANCED DURABILITY

for which ASSIGNOR has made application for Letters Patent in the United States of America, such invention being described and identified by said application identified as Application No. 09/843,268, filed April 26, 2001; 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.

Paul A. Gamble  
PAUL A. GAMBLE

19-Jul-01  
Date

IN WITNESS OF the execution hereof by PAUL A. GAMBLE we have hereunto set our hands.

Terry L. Miller 19-July-01  
Witness (1) Date  
Address: \_\_\_\_\_

39 Emerald Court  
Montez, IL 61550

Jeff Sutherland 19-Jul-01  
Witness (2) Date  
Address: \_\_\_\_\_

604 W. Hudson  
Peoria, IL 61604



## ASSIGNMENT

WHEREAS, ROBERT E. HAWBAKER, residing at Peoria, Illinois, hereinafter referred to ASSIGNOR has invented together with David A. Cusac, Chuong Q. Dam, Mark G. Fulford, Paul A. Gamble and Rebecca M. Zick a new and useful

### A PRESSURE CONTROL VALVE HAVING ENHANCED DURABILITY

for which ASSIGNOR has made application for Letters Patent in the United States of America, such invention being described and identified by said application identified as Application No. 09/843,268, filed April 26, 2001; 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.

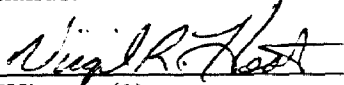
4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.


IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

  
ROBERT E. HAWBAKER

11 July 01  
Date

IN WITNESS OF the execution hereof by ROBERT E. HAWBAKER we have hereunto set our hands.

 7-11-01  
Witness (1) Date  
Address: 21836 ROBINWOOD LN  
DELAWARE, IL 61734

 7/11/01  
Witness (2) Date  
Address: 5519 N. Deerfield Ct  
Peoria, IL 61615

## ASSIGNMENT

WHEREAS, REBECCA M. ZICK, residing at Chillicothe, Illinois, hereinafter referred to as ASSIGNOR has invented together with David A. Cusac, Chuong Q. Dam, Mark G. Fulford, Paul A. Gamble and Robert E. Hawbaker a new and useful

### A PRESSURE CONTROL VALVE HAVING ENHANCED DURABILITY

for which ASSIGNOR has made application for Letters Patent in the United States of America, such invention being described and identified by said application identified as Application No. 09/843,268, filed April 26, 2001; 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.

Rebecca M. Zick  
REBECCA M. ZICK

13-July-01  
Date

IN WITNESS OF the execution hereof by REBECCA M. ZICK we have hereunto set our hands.

Michael W. Shockley 7-13-01  
Witness (1) Date  
Address: 4503 Lauder Ave.  
Bartonville IL 61607

[Chym] Goon 7-13-01  
Witness (2) Date  
Address: 5519 N. Deerfield Ct  
Peoria, IL 61615