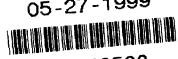
05-27-1999

FORM PT0-1595 1-31-92



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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Caterpillar Inc. R. Carl Wilbur John D. Duffy Internal Address: Douglas W. Koehler Intellectual Property Department Additional Names attached: [] Yes [X] No Street Address: 100 N.E. Adams Street State: <u>Illinois</u> City: Peoría 3. Nature of Conveyance: Zip: 61629-6490 [X] Assignment Security Agreement [] Other Execution Date(s): 05/14/99, 05/17/99, and Additional name(s) & addresses attached? [] Yes [X] No 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 05/14/99, 05/17/99, and 05/17/99. B. Patent No.(s) A. Patent Application No.(s) Additional numbers attached? [] Yes [X] No METHOD AND APPARATUS FOR CONTROLLING THE ACTUATION OF A HYDRAULIC CYLINDER Title of Invention: Attorney Docket No.: 99-227 6. Total number of applications and patents 5. Name and address of party to whom correspondence concerning document should be mailed: involved [1] Name: Kevin M. Kercher CATERPILLAR INC. \$ 40.00 🗸 7. Total fee (37 CFR §3.41) [] Enclosed
[X] Authorized to be charged to deposit Internal Address: Intellectual Property Dept. account Street Address: 100 N. E. Adams Street 8. Deposit account number: 03-1129 -____State: <u>ll</u> City: Peoría (If charged duplicate copy attached) Zip: 61629-6490 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. 05/17/99 Kevin M. Kercher Name of Person Signing Date Total number of pages comprising cover sheet, attachments, and document: [3] Mail document to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Box Assignments Washington, D.C. 20231

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PATENT REEL: 009971 FRAME: 0600

ASSIGNMENT

WHEREAS, R. CARL WILBUR; JOHN D. DUFFY; and DOUGLAS W. KOEHLER, residing respectively at Brimfield, Illinois; Peoria, Illinois; and Naperville, Illinois, hereinafter referred to as ASSIGNORS, have invented a new and useful

METHOD AND APPARATUS FOR CONTROLLING THE ACTUATION OF A HYDRAULIC CYLINDER

for which ASSIGNORS are 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 ASSIGNORS on

| 5/14/99 | | 5/17/99 | and |
|---------|---|---------|---------|
| 5/17/99 | ; | 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 ASSIGNORS from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNORS;

- 1. ASSIGNORS hereby sell, assign, transfer and convey 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 ASSIGNORS have the full right to do so.
- 2. At the request and expense of ASSIGNEE, ASSIGNORS agree 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. ASSIGNORS hereby authorize and request 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 ASSIGNORS, ASSIGNORS' heirs and legal representatives.

PATENT REEL: 009971 FRAME: 0601 IN TESTIMONY WHEREOF, ASSIGNORS have executed this instrument.

| RCal Willow | 5/14/99 | |
|---|-------------------------|-----|
| R. CARL WILBUR | Date | |
| IN WITNESS OF the execution hereof our hands. | by R. CARL WILBUR we ha | ave |

| IN WITNESS OF the execution hereof by R . our hands. | CARL WILBUR we have hereunto set |
|--|---|
| (Eula Walacavae 5/14/99 Witness (1) (Date) | J. W. Burrows 5/14/99 Witness (2) (Date) |
| Address: 217 E. (97Eapeller [Dail | Address: 9525 N. Princeville |
| East PEdaca FL GILL | Jubille Rd. |
| | Bringeld, IL 61517 |
| JOHN D. DUFFY | 5/17/99 Date |
| IN WITNESS OF the execution hereof by <u>JOI</u> hands. | HN D. DUFFY we have hereunto set our |
| Liza Meyer 5/17/99 Witness (1) (Date) | Matthew Winder 5/17/49 Witness (2) (Date) |
| Address: 1001 W. Moss Ave. | Address: 5420 HAYMENDOW LN APT. 34 |
| PEORIA, IL 6/606 | PEORIA, IL, 61615 |
| | |
| 16 Hall | _5/17/59 |
| DOUGLAS W. KOEHLER | Date |
| IN WITNESS OF the execution hereof by <u>DOU</u> set our hands. | JGLAS W. KOEHLER we have hereunto |
| Lize of Muyer 5/14/99 | Matthew or Wande Which 5/17/99 |
| Witness (1) / (Date) | Witness (2) (Date) |

Witness (1) Witness (2) (Date)

Address: |DO| W. Moss AVE.

PEORIA, IL 61606

PEORIA, IL 61615

RECORDED: 05/17/1999

PATENT REEL: 009971 FRAME: 0602