FORM PTO-1619A
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05-08-2002

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

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FINANCE SECTION RECORDATION FORM COVER SHEET

4-29-02

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| X New | X Assignment Security Agreement | |
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| Conveying Party(ies) Mark if additional names of conveying parties attached Execution Date | | |
| Name (line 1) Christopher F. Gallmeye | r Month Day Year 03/07/2002 | |
| Name (line 2) | Execution Date | |
| Name (line 1) L. Glenn Waterfield | Month Day Year 03/12/2002 | |
| | [0371272002] | |
| Name (line 2) | | |
| Receiving Party | Mark if additional names of receiving parties attached | |
| Name (line 1) Caterpillar Inc. | If document to be recorded is an assignment and the receiving party is not | |
| Name (line 2) Intellectual Property De | domiciled in the United | |
| Address (line 1) 100 N.E. Adams Street | representative is attached. (Designation must be a separate document from | |
| Address (line 2) | Assignment.) | |
| Address (line 3) Peoria City | Illinois 61629-6490 Zip Code | |
| Domestic Representative Name and | | |
| Name | | |
| | | |
| Address (line 1) | | |
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| Public burden reporting for this collection of information is estimated gathering the data needed to complete the Cover Sheet. Send comme D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Information Collection Budget Package 0651-0027, Patent and Trader | to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document a ents regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington fice of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB mark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS ASSIGNMENT DOCUMENTS ASSIGNMENT DO | |

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| FORM | PTO-1619B |
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Page 2

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

| CHILD COST COST |
|--|
| Correspondent Name and Address Area Code and Telephone Number (309) 675-5682 |
| Name Robin S. Spellman |
| 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. |
| 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) |
| 10/036,688 |
| |
| |
| If this document is being filed together with a <u>new</u> Patent Application, enter the date the patent application was Month Day Year signed by the first named executing inventor. |
| Patent Cooperation Treaty (PCT) |
| Enter PCT application number |
| only if a U.S. Application Number PCT PCT PCT PCT PCT PCT |
| Number of Properties Enter the total number of properties involved. # 1 |
| Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00 |
| Method of Payment: Enclosed Deposit Account X 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. 01-257 Authorization to charge additional fees: Yes X 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 |
| attached copy is a true copy of the original document. Original to doposit document |
| indicated herein. Pohin S. Spellman 03/26/2002 |
| |
| Name of Person Signing Signature Date |

ASSIGNMENT

WHEREAS, Christopher F. Gallmeyer and L. Glenn Waterfield, residing respectively at Peoria, Illinois and Peoria, Illinois, hereinafter referred to as ASSIGNORS, have invented a new and useful

METHOD AND APPARATUS FOR RESTRAINING TEMPERATURE INDUCED DEFORMATION OF A PIEZOELECTRIC DEVICE

for which ASSIGNORS have made application for Letters Patent in the United States of America, such invention being described and identified by said application identified as Application No. 10/036,688, filed December 21, 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 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: 012855 FRAME: 0556

| CHRISTOPHER F. GALLMEYER | $\frac{3/7/02}{\text{Date}}$ |
|--|---|
| IN WITNESS OF the execution hereof by CHR our hands. | SISTOPHER F. GALLMEYER we have hereunto set |
| Troy A. Farday 3/7/02 Witness (1) Date | Scottkeeles 3/7/02 Witness (2) Date |
| Address: 309 Sycamore Trail | Address: 4056 W HOLLOW CREEK DR #809 |
| chillicothe, IL 61523 | PEOREM IL 61615 |
| · | |
| L. GLENN WATERFIELD | 3-12-02 Date |
| | LENN WATERFIELD we have hereunto set our |
| hands. Witness (1) $3/12/2002$ Date | Witness (2) Date |
| Address: 2979 W. Cannes Dr. Apt.31 | Address: 2501 W. Moss Ave |
| Peoria 12 61615 | PEORIA, 16 61604 |

RECORDED: 04/29/2002