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PATENT

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| Name (line 1) Davi | d Y. Chang | | | 08/10/2000 | |
| Name (line 2) | | | | Execution Date Month Day Year | |
| Second Party Name (line 1) Davi | d C. Mack | | | 08/10/2000 | |
| Name (line 2) | | | | | |
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| Name (line 1) Cate | rpillar Inc. | | | If document to be recorded is an assignment and the | |
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| FORM PTC Expires 06/30/99 OMB 0651-0027 | D-1619B | Page 2 | U.S. Department of Commerce Patent and Trademark Office PATENT | | | |
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| Correspond | ent Name and Addre | Area Code and Telephone Number (3 | 09) 675-4280 | | | |
| Name | John J. Cheek | | | | | |
| Address (line 1) | Caterpillar Inc. | | | | | |
| Address (line 2) | Intellectual Proper | ty Department | | | | |
| Address (line 3) | 100 N. E. Adams Str | eet | | | | |
| Address (line 4) | Peoria, IL 61629-6 | 6490 | | | | |
| Pages | Enter the total number including any attachm | of pages of the attached conveyance docume ents. | ent # 4 | | | |
| Application | Number(s) or Patent | Number(s) Mark if ad | ditional numbers attached | | | |
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| | s being filed together with a <u>ner</u> st named executing inventor. | N Patent Application, enter the date the patent application | Was Month Day Year 08/10/2000 | | | |
| - | peration Treaty (PCT) | PCT PCT | PCT | | | |
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| has | not been assigned. | | | | | |
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| (Enter for | payment by deposit account o | rif additional fees can be charged to the account.) Deposit Account Number: #[| 03-1129 | | | |
| Docket No. | 99-353 | Authorization to charge additional fees: | Yes X No | | | |
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| | | the original document. Charges to deposit a | ccount are authorized, as | | | |
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| | John J. Cheek | XIM COURT | 08/14/2000 Date | | | |
| Name | e of Person Signing | Signature | Date | | | |

ASSIGNMENT

WHEREAS, David Y. Chang and David C. Mack, residing respectively at Savoy, Illinois and Pontiac, Illinois, hereinafter referred to as ASSIGNORS, have invented a new and useful

A FUEL INJECTION SYSTEM AND A METHOD FOR OPERATING

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 <u>August 10, 2000</u> and <u>August 10, 2000</u>; 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.

| Dail Chang DAVID Y. CHANG | 8/10/00 Date | |
|--|---|----------------|
| IN WITNESS OF the execution hereof by DAV ### S/10/00 Witness (1) Date | | |
| Address: RRI BOX 5B Minonk, IL 61760 | Address: 707 IRON | WOOD GE. DAIVE |
| · | | |
| David C. Mach | 8/16/00 Date | |
| IN WITNESS OF the execution hereof by DAN Witness (1) Blick Slicks Date | | |
| Witness (1) Date Address: 214 Covery Rt 2350 5 | Witness (2) Address: $229 \Rightarrow A$ | |
| TOLUCA, 16 61369 | STERNIO- | 2 11 61366 |

RECORDED: 08/14/2000