

PATENTS ONLY

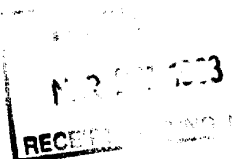
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1. Name of party or parties conveying an interest:  Glen F. Forck Umesh Shah	2. Name and address of party or parties receiving an interest:  Name: Caterpillar Inc., a Delaware corporation Address: Peoria, Illinois, United States of America Name: Lucas Industries Public Limited Company Address: Solihull, Great Britain
3. Description of the interest conveyed:  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement  Other: _____  Execution Date: Feb. 12, 1998; March 1, 1998	
4. Application number(s) or patent number(s). Additional sheet attached? YES _____ NO <input checked="" type="checkbox"/>  A. Patent application no.(s):  08/964,157 filed November 4, 1997	If the document is being filed together with a new application, the execution date of the application is: _____  B. Patent no.(s): _____
5. Name and address of party to whom correspondence concerning this cover sheet should be mailed:  Name: William E. McCracken (Reg. No. 30,195) MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN Street Address: 6300 Sears Tower, 233 South Wacker Drive City: Chicago State: Illinois Zip: 60606-6402	6. Number of applications and/or patents identified on this cover sheet: _____ 7. Amount of fee enclosed or authorized to be charged: \$ 40.00  8. Any additional required fee may be charged, or any overpayment credited to our deposit account: 13-285.00

9. To the best of my knowledge and belief, the information contained on this cover sheet is true and correct and any copy submitted is a true copy of the original document.

Date: March 24, 1998

William E. McCracken

Reg. No. 30,195

Total number of pages including cover sheet, attachments, and document: 3

PATENT

REEL: 9055 FRAME: 0262

08-4157  
40.00  
04/01/1998  
FC-581

ASSIGNMENT

U.S. Serial No.: 08/964,157

WHEREAS, GLEN F. FORCK, a resident of Peoria, IL 61615, and UMESH SHAM, a resident of Peoria, IL 61614, hereinafter referred to as ASSIGNORS, have invented a new and useful

FUEL INJECTOR UTILIZING A SOLENOID  
HAVING COMPLEMENTARILY-SHAPED DUAL ARMATURES

for which they 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 respectively on November 3, 1997 and November 4, 1997; and

WHEREAS, CATERPILLAR INC., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, and LUCAS INDUSTRIES PUBLIC LIMITED COMPANY having a place of business at Solihull, Great Britain, hereinafter referred to as ASSIGNEES, are 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 ASSIGNEES, the receipt of which is hereby acknowledged by ASSIGNORS:

1. ASSIGNORS hereby sell, assign, transfer and convey unto ASSIGNEES 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 they have the full right to do so.

2. At the request and expense of ASSIGNEES, ASSIGNORS agree to communicate to ASSIGNEES any facts known respecting said invention, to execute all papers necessary to file any application on said invention and to perfect said title in ASSIGNEES, and to generally do everything necessary or desirable to aid ASSIGNEES 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. and LUCAS INDUSTRIES PUBLIC LIMITED COMPANY.

4. This assignment shall inure to the benefit of ASSIGNEES, their successors, assigns and other legal representatives, and shall be binding upon ASSIGNORS, their heirs and legal representatives.

IN TESTIMONY WHEREOF, we have executed this instrument.

Glen F. Forck  
GLEN F. FORCK

12 Feb. 98 (Date)

Umesh Shah  
UMESH SHAH

1 March, 98 (Date)

IN WITNESS OF the execution hereof by GLEN F. FORCK we have hereunto set our hands.

Daniel E. Zimmerman 2-12-98  
Witness (1) (Date)

James L. Renly 2-12-97  
Witness (2) (Date)

Address: 9909 N. BARBADOS DR.  
PEORIA IL 61615

Address RR #1  
WASHBURN IL 61570

IN WITNESS OF the execution hereof by UMESH SHAH we have hereunto set our hands.

S. J. G. G. G. 3-1-98  
Witness (1) (Date)

James L. Renly 3/1/98  
Witness (2) (Date)

Address: 24738 Cherry St  
Dearborn, MI 48124

Address 30351 WIMBERIDGE #303  
LAKEMAN, MI 48326