

Title (en)
DEVICE FOR FEEDING A LIQUID-FUEL BURNER

Publication
EP 0042900 B1 19840926 (FR)

Application
EP 80400992 A 19800701

Priority
EP 80400992 A 19800701

Abstract (en)
[origin: EP0042900A1] 1. A device for feeding a liquid-fuel burner, comprising a pump with a rotary piston (20) provided with a cut-away portion (22) and accommodated in a pressure tight manner in a housing (10) itself provided with an inlet port (11) and a delivery port (12) adapted to communicate periodically and alternately during rotation of the piston with the cut-away portion there of, and a cam mechanism (13, 14, 23) interposed between the housing (10) and the rotary piston (20), and defining internally of the housing (10) a variable volume of space communicating with the cut-away portion of the piston, and a motor (27) for driving the piston in rotation, characterized by the fact that the piston (20) is constituted by the motor shaft, on which the housing (10) is slidingly mounted, whilst being resiliently urged towards the motor shaft (20) by a weak return spring (15), whilst flexible connections (11a, 12a) connect the inlet and delivery ports of the body, substantially rotationally held, to fixed parts.

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F23K 5/00; F04B 7/06

IPC 8 full level
F04B 7/06 (2006.01); **F23K 5/14** (2006.01)

CPC (source: EP)
F04B 7/06 (2013.01); **F23K 5/145** (2013.01)

Citation (examination)

- DE 2327140 A1 19741219 - JOHN HELMUT
- FR 1416519 A 19651105 - GEM COMP ELECTRO MEC
- US 3914073 A 19751021 - FUSCO RALPH L
- DE 2362194 A1 19750626 - AUDI AG
- FR 2344766 A1 19771014 - BJOERKLUND CURT ARNOLD [SE]
- FR 1058498 A 19540316
- US 3083895 A 19630402 - WELLES JR DONALD P
- US 2354980 A 19440801 - DAMIANO ARRAS

Cited by
FR2882795A1; EP1701035A1; EP0560201A1; US5411382A; US2020025184A1; CN110732057A; US11174852B2; JP2021531865A; WO2020018322A1

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