

Title (en)
FUEL INJECTION APPARATUS FOR INTERNAL-COMBUSTION ENGINES

Publication
EP 0067369 A3 19840111 (DE)

Application
EP 82104851 A 19820603

Priority
DE 3123325 A 19810612

Abstract (en)
[origin: US4655184A] A fuel injection apparatus for internal combustion engines in which beyond a predetermined remaining stroke during the supply stroke of the pump piston, a relief conduit is opened via a control edge. The same control edge closes the relief conduit once again during the intake stroke. During the subsequent effective intake stroke, the quantity of fuel to be injected upon the following compression stroke is metered by means of the electrically actuatable valve. The magnetic valve here is already opened before the closure of the relief conduit by the control edge, so that in the opening phase of the relief conduit, the pump work chamber of the fuel injection apparatus is flushed. In this manner, precise metering of the quantity of fuel to be injected is attained.

IPC 1-7
F02D 5/02; **F02M 59/36**; **F02M 59/10**

IPC 8 full level
F02D 41/40 (2006.01); **F02D 1/02** (2006.01); **F02M 41/12** (2006.01); **F02M 59/02** (2006.01); **F02M 59/10** (2006.01); **F02M 59/34** (2006.01); **F02M 59/36** (2006.01)

CPC (source: EP US)
F02M 41/125 (2013.01 - EP US); **F02M 41/128** (2013.01 - EP US); **F02M 59/34** (2013.01 - EP US); **F02M 59/366** (2013.01 - EP US)

Citation (search report)
• [A] DE 1917927 A1 19701029 - BOSCH GMBH ROBERT
• [A] FR 2389005 A1 19781124 - LUCAS INDUSTRIES LTD [GB]
• [A] DE 840477 C 19520603 - BOSCH GMBH ROBERT
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• [A] DE 2210400 A1 19720921
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DE FR GB

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