

Title (en)
FUEL INJECTION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
KRAFTSTOFFEINSPRITZANLAGE FÜR EINE BRENNKRAFTMASCHINE

Title (fr)
SYSTEME D'INJECTION DE CARBURANT DESTINE A UN MOTEUR A COMBUSTION INTERNE

Publication
EP 0946829 B1 20031112 (DE)

Application
EP 98942493 A 19980706

Priority
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• DE 19746490 A 19971022

Abstract (en)
[origin: DE19746490A1] A fuel injection system has the facility to add an additional fluid e.g. water to improve emission products and efficiency. Two 2/2 valves replace two costly 3/2 valves. One valve (MV1) is connected between the common rail fuel supply and the injector and a second valve (MV2) is connected between the first valve and the low pressure side of the injectors, with a non return valve between the valve and the injector. A single pair of valves controls the amount and timing of additional fluid added to all the injectors.

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F02M 43/00; F02M 43/02; F02M 47/02

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DE 19746490 A1 19990429; CN 1107798 C 20030507; CN 1242820 A 20000126; DE 59810161 D1 20031218; EP 0946829 A1 19991006; EP 0946829 B1 20031112; JP 2001506729 A 20010522; KR 20000069463 A 20001125; US 6223734 B1 20010501; WO 9920891 A1 19990429

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