

Title (en)
Injection timing advance arrangement

Title (de)
Einspritzzeitpunktversteller

Title (fr)
Dispositif d'avance d'injection

Publication
EP 1167723 B1 20031119 (EN)

Application
EP 01304818 A 20010531

Priority
GB 0015191 A 20000622

Abstract (en)
[origin: EP1167723A2] An advance arrangement comprises an advance piston (12) which is slidable within a first bore (14), the advance piston (12) cooperating, in use, with a cam arrangement of a fuel pump to adjust the timing of fuel delivery by the pump. A servo-piston (24) is slidable within a further bore (22) provided in the advance piston (12), a light load piston (26) being moveable relative to the advance piston (12) against the action of a light load control spring (28). A servo-control spring (34) is engaged between the light load piston (26) and the servo-piston (24) and a seal arrangement (30, 32) comprising at least one separate seal member, is arranged to form a substantially fluid tight seal between the servo-piston (24) and the light load piston (26). The servo-piston (24) may include a removable region (40), whereby removal of the region (40) permits the advance characteristics of the advance arrangement for light load conditions to be varied. <IMAGE>

IPC 1-7
F02D 1/18; F02M 41/14

IPC 8 full level
F02D 1/18 (2006.01); F02M 41/14 (2006.01)

CPC (source: EP)
F02D 1/183 (2013.01); F02M 41/1416 (2013.01)

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 1167723 A2 20020102; EP 1167723 A3 20020619; EP 1167723 B1 20031119; DE 60101244 D1 20031224; DE 60101244 T2 20040909;
GB 0015191 D0 20000809

DOCDB simple family (application)
EP 01304818 A 20010531; DE 60101244 T 20010531; GB 0015191 A 20000622