

Title (en)

INJECTION VALVE FOR MIXTURE COMPRESSION INTERNAL COMBUSTION ENGINES

Publication

EP 0189863 B1 19891220 (DE)

Application

EP 86100945 A 19860124

Priority

DE 3502919 A 19850129

Abstract (en)

[origin: US4647012A] An injection valve for a mixture-compressing internal combustion engines which is retained in the mounting bore in the suction pipe by way of a sealing ring. In order not to damage the sealing ring during the insertion of the injection valve into the mounting bore of the suction pipe, an axially displaceable sleeve is proposed according to the invention which slides on a cylindrical section of the injection valve. The sleeve includes a conical forward section that surrounds the sealing ring. During the installation of the injection valve, the sleeve is supported at the walls of the suction pipe and guides the sealing ring into the mounting bore without contact with the edges of the mounting bore.

IPC 1-7

F02M 61/14; **F02M 69/00**; **F16L 21/02**

IPC 8 full level

F02M 61/14 (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP US)

F02M 61/145 (2013.01 - EP US); **Y10S 251/90** (2013.01 - EP US)

Cited by

TWI562628B

Designated contracting state (EPC)

FR GB IT SE

DOCDB simple family (publication)

EP 0189863 A2 19860806; **EP 0189863 A3 19880427**; **EP 0189863 B1 19891220**; DE 3502919 A1 19860731; DE 3502919 C2 19870917; JP H0370115 B2 19911106; JP S61218770 A 19860929; US 4647012 A 19870303

DOCDB simple family (application)

EP 86100945 A 19860124; DE 3502919 A 19850129; JP 1121686 A 19860123; US 82232586 A 19860127