

Title (en)

INJECTOR COMPRISING A DEVICE FOR SEALING AN ACTUATOR UNIT, AND SEALING RING

Title (de)

INJEKTOR MIT EINER VORRICHTUNG ZUM ABDICHTEN EINER AKTOREINHEIT SOWIE DICHTRING

Title (fr)

INJECTEUR POURVU D'UN DISPOSITIF DESTINE A ETANCHEIFIER UNE UNITE D'ACTIONNEMENT ET BAGUE D'ETANCHEITE

Publication

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Application

**EP 03813532 A 20031216**

Priority

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Abstract (en)

[origin: WO2004057179A1] Disclosed is an injector for injecting fuel into a combustion engine, in which especially a piezoelectric actuator unit (2) actuates a servo valve or an injector needle by means of a lifting pin (3). The aim of the invention is to seal the actuator unit (2) against the high fuel pressure prevailing in a leakage space (6). Said aim is achieved by a device comprising a sealing ring that is provided with a flexible, fuel-resistant plastic ring (4) which tightly surrounds the lifting pin (3) in a centered and sealing manner against the effective fuel pressure. The plastic ring (4) is also tightly surrounded by a metal ring (5) which prevents axial displacement inside the housing (1). Said arrangement advantageously allows sealing against the fuel pressure as well as precise axial guidance of the actuator unit (2) or the lifting pin (3) without affecting the vertical mobility thereof.

IPC 8 full level

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