

Title (en)

Fuel injection device, especially for a direct injection internal combustion engine

Title (de)

Kraftstoff-Einspritzvorrichtung, insbesondere für eine Brennkraftmaschine mit Direkteinspritzung

Title (fr)

Dispositif d'injection de carburant, en particulier pour un moteur à combustion interne à injection directe

Publication

EP 1526274 B1 20151111 (DE)

Application

EP 04021298 A 20040908

Priority

DE 10348978 A 20031022

Abstract (en)

[origin: EP1526274A1] The device has a housing (28) with at least two coaxial valve elements loaded in closing direction by a servo device (61,88). The inner one (40) of the valve elements consists of a valve body (44) acting with a housing-mounted valve seat, and a guide body (42). This moves in the outer valve element (36) and loads the valve body in closing direction when in normal position. There is a radial gap between valve body and outer valve element. An end face (78) of the guide body opens into a leakage channel (79), which is connected to a leakage connection (24).

IPC 8 full level

F02M 61/16 (2006.01); **F02M 45/08** (2006.01); **F02M 61/04** (2006.01); **F02M 61/12** (2006.01); **F02M 61/18** (2006.01); **F02M 63/02** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 45/086 (2013.01); **F02M 61/042** (2013.01); **F02M 61/12** (2013.01); **F02M 61/16** (2013.01); **F02M 61/161** (2013.01); **F02M 61/182** (2013.01); **F02M 63/0225** (2013.01); **F02M 61/167** (2013.01); **F02M 2200/46** (2013.01)

Cited by

EP1744050A1; EP2060774A1; EP1744051A1; US7871021B2; US7934668B2; US7744017B2; WO2009087453A1; WO2006018438A1; WO2009016004A1

Designated contracting state (EPC)

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