

Title (en)

FUEL INJECTION DEVICE, ESPECIALLY FOR A DIRECT INJECTION INTERNAL COMBUSTION ENGINE

Title (de)

KRAFTSTOFF-EINSPRITZVORRICHTUNG, INSBESONDERE FÜR EINE BRENNKRAFTMASCHINE MIT KRAFTSTOFF-DIREKTEINSPRITZUNG

Title (fr)

DISPOSITIF D'INJECTION DE CARBURANT, NOTAMMENT POUR UN MOTEUR A COMBUSTION INTERNE A INJECTION DIRECTE DE CARBURANT

Publication

EP 1671029 B1 20071031 (DE)

Application

EP 04762588 A 20040804

Priority

- DE 2004001743 W 20040804
- DE 10346222 A 20030923

Abstract (en)

[origin: DE10346222A1] The fuel injection device has a housing (28) and a valve element (48) in a housing recess (30) with at least one associated fuel outlet channel (32) and a sleeve part (34) coaxial to the valve element that sits on the valve element. There is an alignment arrangement (38) that aligns the sleeve part radially relative to the housing recess and the valve element is guided in the sleeve part.

IPC 8 full level

F02M 61/12 (2006.01); **F02M 47/02** (2006.01)

CPC (source: EP)

F02M 47/027 (2013.01); **F02M 61/12** (2013.01)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 10346222 A1 20050414; DE 502004005391 D1 20071213; EP 1671029 A2 20060621; EP 1671029 B1 20071031; WO 2005038235 A2 20050428; WO 2005038235 A3 20060126

DOCDB simple family (application)

DE 10346222 A 20030923; DE 2004001743 W 20040804; DE 502004005391 T 20040804; EP 04762588 A 20040804