

Title (en)
ELECTROMAGNETIC FUEL-INJECTION VALVE

Title (de)
ELEKTROMAGNETISCHES BRENNSTOFFEINSPRITZVENTIL

Title (fr)
VALVE ÉLECTROMAGNÉTIQUE D'INJECTION DE CARBURANT

Publication
EP 2570648 A1 20130320 (EN)

Application
EP 11780515 A 20110427

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• JP 2010112352 A 20100514
• JP 2011060244 W 20110427

Abstract (en)
In the disclosed electromagnetic fuel-injection valve: a non-magnetic or weakly magnetic guide bush (19) is affixed at the inner periphery of an immobile core (6); the front end of the guide bush (19) protrudes from the suction surface (6a) of the immobile core (6); during excitation of a coil (37), by means of a mobile core (16) being caused to contact the front end of the guide bush (19), the opening boundary of a valve body (15) is defined, and an air gap (g) is formed between the immobile core (6) and the mobile core (16); and a sliding member (20) that is slidably borne at the inner peripheral surface of the guide bush (19) is provided to a valve assembly (V). As a result, a structure-simple electromagnetic fuel injection valve is provided wherein the opening/closing postures of the valve body can be effectively stabilized, and moreover at the time of demagnetization of the coil, valve closing responsiveness can be favorably obtained.

IPC 8 full level
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CPC (source: EP)
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Cited by
CN107850021A; US10330062B2; US9334842B2; US10808662B2; US10107243B2; DE112014007115B4; US10309356B2; US10941739B2

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