

Title (en)
Electromagnetic fuel injection valve

Title (de)
Elektromagnetisches Kraftstoffeinspritzventil

Title (fr)
Injecteur de carburant électromagnétique

Publication
EP 2103803 A1 20090923 (EN)

Application
EP 09154682 A 20090309

Priority
JP 2008069977 A 20080318

Abstract (en)
An object of the present invention is to provide an electromagnetic fuel injection valve in which the strength of a coil assembly can be enhanced while the reduction in cross-sectional area of magnetic path of a coil housing is prevented, and moreover the sound insulating properties are excellent. In an electromagnetic fuel injection valve, a first sound insulating resin layer (41) is formed at the outer periphery of a coil assembly (30), and the first sound insulating resin layer (41) and a coupler (42) are molded integrally to form the coil assembly (30) with the coupler (42); a bobbin (31) of the coil assembly (30) with the coupler (42) is fitted onto the outer peripheral surfaces of a valve housing (1) and a stationary core (5), and a sound insulating air layer (43) is formed between the fitted peripheral surfaces; a coil housing (45) for accommodating the coil assembly (30) with the coupler (42) is fitted and fixed to the valve housing (1) and the stationary core (5); and a second sound insulating resin layer (49) is formed so as to cover the outer periphery of the valve housing (1) and the outer periphery of the root of the coupler (42).

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CPC (source: EP)
F02M 51/005 (2013.01); **F02M 51/061** (2013.01); **F02M 51/0614** (2013.01); **F02M 51/0664** (2013.01); **F02M 51/0682** (2013.01)

Citation (applicant)
JP 2005240731 A 20050908 - KEIHIN CORP

Citation (search report)

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

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