

Title (en)

Fuel injector with a silicon nozzle.

Title (de)

Brennstoffeinspritzdüse mit Silikondüse.

Title (fr)

Injecteur de carburant avec ajustage en silicone.

Publication

EP 0503757 A2 19920916 (EN)

Application

EP 92300881 A 19920203

Priority

US 66676491 A 19910308

Abstract (en)

A fuel injector for use in an internal combustion engine is provided and comprises an injector body (12) having a first portion (14) with an inlet (18) for communicating with a fuel source, a second portion (16) having an outlet (20) for ejecting fuel from the body, and an inner passageway (22) which communicates with the inlet and the outlet. A fuel valve (30) is located within the inner passageway (22) for controlling fuel ejection from the outlet. A silicon nozzle (40) is positioned adjacent to the second portion (16) for metering and dispersing fuel as it is ejected from the outlet. A retainer (50) is connected to the injector body (12) for retaining the nozzle (40) against the second portion (16). The retainer (50) includes a side portion (52) and a base portion (54) extending at an angle relative to the side portion (52) for applying a spring-biased force against the nozzle (40) to retain the nozzle (40) against the second portion (16), thereby substantially sealing the interface between the nozzle (40) and the second portion (16) from fuel leakage. <IMAGE>

IPC 1-7

F02M 61/04; **F02M 61/16**; **F02M 61/18**

IPC 8 full level

F02M 61/16 (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP)

F02M 61/16 (2013.01); **F02M 61/166** (2013.01); **F02M 61/1853** (2013.01)

Cited by

GB2386157B; US5492277A; US5564392A; US5716009A; CN1055985C; US5636796A; EP3121216A3; US9670379B2; WO9504881A1; WO9504882A1; WO9527136A1; WO9722798A1

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