

Title (en)

FUEL INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)

KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

Title (fr)

SOUPAPE D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

Publication

EP 0943054 B1 20020918 (DE)

Application

EP 98936173 A 19980616

Priority

- DE 9801628 W 19980616
- DE 19744518 A 19971009

Abstract (en)

[origin: DE19744518A1] With the conical valve sealing surface (15), the arrangement works in conjunction with a valve sealing surface (19) on the valve body (1) for control of an injection cross-section. The valve member (11), via an inner guide, can slidingly move on a pin (9) of a static insert body (7).

IPC 1-7

F02M 47/02

IPC 8 full level

F02M 47/00 (2006.01); **F02M 47/02** (2006.01); **F02M 61/12** (2006.01)

CPC (source: EP US)

F02M 47/027 (2013.01 - EP US)

Cited by

US8220701B2

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DE FR GB

DOCDB simple family (publication)

DE 19744518 A1 19990415; DE 59805604 D1 20021024; EP 0943054 A1 19990922; EP 0943054 B1 20020918; JP 2001506345 A 20010515; US 6247452 B1 20010619; WO 9919619 A1 19990422

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DE 19744518 A 19971009; DE 59805604 T 19980616; DE 9801628 W 19980616; EP 98936173 A 19980616; JP 52073099 A 19980616; US 31953399 A 19990721