

Title (en)

Electromagnetically operated injector for internal combustion engines.

Title (de)

Elektromagnetischer Injektor für Brennkraftmaschine.

Title (fr)

Injecteur électromagnétique pour moteur à combustion interne.

Publication

EP 0234642 A1 19870902 (EN)

Application

EP 87200212 A 19870211

Priority

IT 1944586 A 19860218

Abstract (en)

The injector comprises an injection nozzle (21) which is controlled by valve members (17) and consists of a bore in the surface of which there are formed one or more grooves (31) which open into a chamber (32) faced by the valve members (17). The grooves (31) have a cross-section which progressively decreases in the direction away from the inner chamber (32), and can terminate before reaching the outer surface (33) of the nozzle (21). They can be of substantially rectilinear extension with their axis coplanar with the axis of the bore, or can be of oblique or curved extension. The grooves create in the liquid fuel mass fluid fillets of preferential path which cause the jet to open and to break down into extremely small droplets distributed as a cone.

IPC 1-7

F02M 61/18; **F02M 51/06**

IPC 8 full level

F02M 51/06 (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP)

F02M 51/0667 (2013.01); **F02M 61/06** (2013.01); **F02M 61/18** (2013.01)

Citation (search report)

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Cited by

US5836521A; WO9733086A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0234642 A1 19870902; **EP 0234642 B1 19900411**; DE 3762262 D1 19900517; IT 1213039 B 19891207; IT 8619445 A0 19860218

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