

Title (en)

FUEL INJECTOR HAVING REDUCED STREAM DISPERSION, ESPECIALLY OF AN OFF-AXIS INJECTED STREAM

Title (de)

EINSPRITZVENTIL MIT VERRINGERTER STROMDISPERSION, INSBESONDERE EINES AUSSERAXIALEN EINGESPRITZTEN STROMES

Title (fr)

INJECTEUR DE CARBURANT AVEC DISPERSION REDUITE DU JET DE CARBURANT, EN PARTICULIER POUR UN JET DE CARBURANT INJECTE DESAXE

Publication

**EP 0787253 A1 19970806 (EN)**

Application

**EP 95936333 A 19951016**

Priority

- US 9513209 W 19951016
- US 32397294 A 19941017

Abstract (en)

[origin: WO9612104A1] Significant improvement in limiting the dispersion of an injected fuel stream is obtained by constructing the tip end of the needle valve (21) to have a proximal portion and a distal portion wherein the proximal portion is a surface (52) in the form of a segment of an imaginary sphere that is geometrically defined by imaginary spaced-apart, parallel planes passing through such imaginary sphere, that surface of the proximal tip portion being that portion of said tip end that seats on and unseats from a frustoconical seat (32) as the valve is reciprocated, and the distal tip portion (56) is a frustoconical surface (54) extending tangentially from the proximal tip portion. Such limiting of the dispersion of the injected stream provides better targeting of the injected fuel.

IPC 1-7

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

IPC 8 full level

**F02M 51/06** (2006.01); **F02M 51/08** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP KR)

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