

Title (en)

SWIRL PLATE ESPECIALLY FOR FUEL INJECTION VALVES

Title (de)

DRALLSCHEIBE, INSBESONDERE FÜR EINSPRITZVENTILE

Title (fr)

RONDELLE DE TURBULENCE, NOTAMMENT POUR SOUPAPES D'INJECTION DE CARBURANT

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0216758A1] The invention relates to a swirl plate WHICH IS characterized in that it comprises at least one inlet zone (65) and at least one outlet opening (69), the at least one outlet opening (69) being disposed in a lower bottom layer (62). The swirl plate (30) is further provided with two swirl channels (66) that run into a swirl chamber (68), said swirl chamber (69) being disposed in a swirling layer (61). The swirl channels (66) are disposed and aligned so as to generate, when a fluid flows through them, at least two opposite swirl fluxes that produce respective flux branches (70). The inventive swirl plate (30) is especially appropriate for use in a fuel injection valve, especially in a high pressure injection valve for direction injection of fuel in a combustion chamber of a mixture-compressing, spark-ignited internal combustion engine.

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