

Title (en)

SWIRL DISK AND FUEL INJECTION VALVE WITH SWIRL DISK

Title (de)

DRALLSCHEIBE UND BRENNSTOFFEINSPRITZVENTIL MIT DRALLSCHEIBE

Title (fr)

DISQUE DE TURBULENCE ET SOUPAPE D'INJECTION DE CARBURANT EQUIPEE DE CE DERNIER

Publication

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Application

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Abstract (en)

[origin: DE19815775A1] The invention relates to a swirl disk characterized in that it consists of at least one metallic material, has at least one inlet area (65) and at least one outlet opening (69) which is embodied in a lower base layer (62), and at least two swirl channels (66) which discharge into a swirl chamber (68). The swirl chamber (68) is situated in a middle swirl-generating layer (61). An upper layer is configured as a covering layer (60) which across its entire cross-sectional area is a continuous layer without opening outlines. All layers of the swirl disk (30) are placed directly on top of each other by means of galvanic metallisation (multilayer galvanic metallisation). This swirl disk (30) is especially suitable for use in a fuel injection valve, especially a high-pressure injection valve for the direct injection of fuel into a combustion chamber of a spark-ignition internal combustion engine with mixture compression.

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IPC 8 full level

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