

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

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Abstract (en)
[origin: DE19815781A1] The invention relates to a fuel injection valve which is characterized in that it comprises a turbulence disc (30) which is located downstream from a valve seat (15). Said turbulence disc is comprised of at least one metallic material and of at least two turbulence ducts (70) which flow into a turbulence chamber (69). All layers (60, 61, 62) of the turbulence disc are produced by means of electrodeposition (multilayer metallizing). Said layers are directly deposited on top of one another such that they adhere in a fixed manner. The turbulence disc (30) comprises a top layer (60) having a plurality of material areas (60') which are separated from one another by opening structures (65, 66). The turbulence disc (30) lies with the material areas (60') thereof on a valve seat body (9) which comprises the valve seat (15). The fuel injection valve is especially suited for directly injecting fuel into a combustion chamber of a compound compressed, spark injection internal combustion engine.

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