

Title (en)
FUEL INJECTION DEVICE WITH TWO COAXIAL VALVE ELEMENTS

Title (de)
KRAFTSTOFF-EINSPRITZVORRICHTUNG MIT ZWEI KOAXIALEN VENTILELEMENTEN

Title (fr)
DISPOSITIF D'INJECTION DE CARBURANT COMPRENANT DEUX ELEMENTS DE SOUPAPE COAXIAUX

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Abstract (en)
[origin: WO02084110A1] The invention relates to a fuel injection device (10) for internal combustion engines, comprising an elongated housing (12) with a closed injection end (28). A recess (34) extends within said housing (12) in the longitudinal direction thereof and can be linked with a fuel inlet (20). At least two axially spaced apart outlet openings (30, 32) are provided on the injection end (28). At least two coaxially and axially movable valve elements (40, 42) are disposed in the recess (34) and cooperate with valve seats in the area of the outlet openings (30, 32). In order to allow for a fuel injection device (10) that is as simple and small as possible in design, the valve elements (40, 42) comprise a driving connection (52, 72) which allows the one valve element (40; 42), when travelling a certain path (S1), to axially contact the other valve element (42; 40), thereby taking it along.

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