

Title (en)
DEVICE FOR INJECTING FUEL

Title (de)
VORRICHTUNG ZUM EINSPRITZEN VON KRAFTSTOFF

Title (fr)
DISPOSITIF POUR INJECTER DU CARBURANT

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Application
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Abstract (en)
[origin: WO2010127887A1] The invention relates to a device for injecting fuel, comprising a valve body (2), a valve needle (3) which opens toward the outside and is arranged in the valve body (2) in a pressure chamber (4) which is filled with fuel and to which fuel is fed under pressure, a restoring element (20) which guides the valve needle (3) back into a starting position, an electromagnetic actuator (6) arranged in an actuator chamber (9) in order to actuate the valve needle (3), and a membrane (13) which is arranged in the actuator chamber (9) dividing the actuator chamber (9) into a first fuel-filled region (5) and a second fuel-free region (18) in a fluid-tight manner and dividing the valve needle (3) into an injection-side part (3a) and an actuator-side part (3b), wherein the injection-side part (3a) of the valve needle (3) comprises a pressure compensating piston (10) separating the pressure chamber (4) from the first fuel-filled region (5) of the actuator chamber (9), and wherein the actuator (6) is arranged in the second fuel-free region (18).

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