

Title (en)

DEVICE FOR SWITCHING INDUCTIVE FUEL INJECTION VALVES

Title (de)

VORRICHTUNG ZUM SCHALTEN INDUKTIVER KRAFTSTOFF-EINSPRITZVENTILE

Title (fr)

DISPOSITIF POUR COMMANDER DES SOUPAPES D'INJECTION DE CARBURANT INDUCTIVES

Publication

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Application

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Abstract (en)

[origin: WO2007085591A1] Disclosed are a method and a device for more rapidly switching inductive fuel injection valves. According to the invention, the magnetic retaining forces generated by remanence in a bistable valve comprising an opening and closing coil or by eddy currents in a standard valve comprising an opening coil and a closing spring are eliminated with the aid of a negative current that flows through the coil in a direction running counter to the direction of the operating current. Additionally, the magnetic yoke and armature that are used are made of materials having different conductivities in order to be able to close the valve even more quickly.

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