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(54) **Electromagnetic fuel injector for gaseous fuels with anti-wear stop device**

(57) Electromagnetic fuel injector (1) for gaseous fuels comprising: an injection nozzle (3) controlled by an injection valve (8); a movable shutter (10) to regulate the flow of fuel through the injection valve (8); an electromagnetic actuator (7), which is suitable to move the shutter (10) between a closed position and an open position of the injection valve (8) and comprises a fixed magnetic pole (16), a coil (14) suitable to induce a magnetic flux in the magnetic pole (16), and a movable anchor (17) suitable to be magnetically attracted by the magnetic pole (16); an absorption element (28), which is made of an amagnetic elastic material and is arranged between the magnetic pole (16) and the anchor (17); and a protective element (29), which is made of a magnetic metal material having high surface hardness and is interposed between the absorption element (28) and the anchor (17).

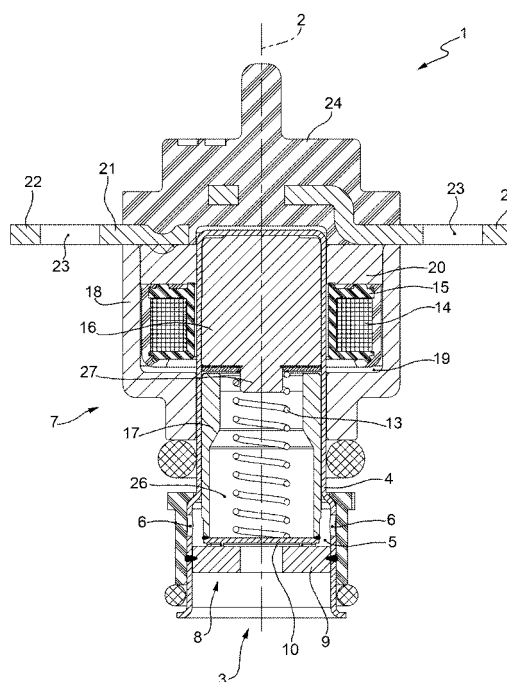


FIG.1