

Title (en)  
HYDRAULIC CONTROL DEVICE, IN PARTICULAR FOR AN INJECTOR

Title (de)  
HYDRAULISCHE STEUERVORRICHTUNG, INSBESONDERE FÜR EINEN INJEKTOR

Title (fr)  
DISPOSITIF DE COMMANDE HYDRAULIQUE, EN PARTICULIER POUR UN INJECTEUR

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Application  
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Abstract (en)  
[origin: US6820820B1] The invention is based on a hydraulic control device (60), in particular for an injector (16) of a fuel injection system (10) in motor vehicles. Known control devices have a piezoelectric actuator, which controls a multi-position valve (75), embodied as an outward-opening valve with a valve member (74) guided in a valve bore (76). According to the invention, it is proposed that a booster (62) that reverses the deflection motion of the actuator (52) be disposed between the actuator (52) and the valve member (74), and that the multi-position valve (75) be embodied as an inward-opening 3/2-way valve. The valve member (74) of this valve, in operative connection with a valve seat (98) and a control edge (96), alternately opens or closes pressure fluid connections between pressure fluid conduits (86, 88, 92).

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