

Title (en)

INJECTION SYSTEM AND METHOD FOR OPERATING AN INJECTION SYSTEM

Title (de)

EINSPRITZSYSTEM UND VERFAHREN ZUM BETREIBEN EINES EINSPRITZSYSTEMS

Title (fr)

SYSTEME D'INJECTION ET PROCEDE PERMETTANT DE FAIRE FONCTIONNER UN SYSTEME D'INJECTION

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Application

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Abstract (en)

[origin: US6588678B1] The invention relates to an injection system having a piezoelectric adjuster (10), a hydraulic booster (12) and a control valve (14). In continuous operation of the injection system, the stroke of the piezoelectric adjuster (10) can be transmitted to the control valve (14) via a hydraulic medium in the hydraulic booster (12). In addition, the piezoelectric adjuster (10) and the components of the hydraulic booster (12) are disposed relative to the control valve (14) such that at least a portion of the stroke of the piezoelectric adjuster (10) can be transmitted directly to the control valve (14). In the method according to the invention for operating a piezoelectric injector, in which the piezoelectric adjuster (10) is electrically excited and made to execute a stroke; in a first phase, the stroke is transmitted directly to a control valve (14); in a second phase, the stroke is transmitted hydraulically to a control valve (14); and the control valve (14) is opened by the stroke.

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