

Title (en)
FUEL INJECTION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
KRAFTSTOFF-EINSPRITZSYSTEM FÜR EINE BRENNKRAFTMASCHINE

Title (fr)
SYSTEME D'INJECTION DE CARBURANT POUR UN MOTEUR A COMBUSTION INTERNE

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Application
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Abstract (en)
[origin: WO2007014733A1] The invention provides a fuel injection system which, with a mechanically simple design and low control expenditure, has a high degree of operational reliability in that a quantity-limiting arrangement, having a quantity-limiting valve and a bypass valve, is arranged upstream of a respective injector, the blocking element of which bypass valve is acted on in the closing direction with a closing force corresponding to the given pressure difference across the quantity-limiting valve, and is to be adjusted in the opening direction by means of an adjustment device whose adjustment force is lower than the closing force which corresponds to the pressure difference generated across the quantity-limiting valve if the injection valve is defective, that is to say in the event of the fuel supply to the respective cylinder combustion space exceeding the maximum control injection quantity.

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