

Title (en)

DECELERATOR DEVICE MOUNTED IN THE EXHAUST GAS CIRCUIT OF A VEHICLE EQUIPPED WITH A COMBUSTION ENGINE

Title (de)

IN EINER ABGASLEITUNG ANGEORDNETE BREMSVORRICHTUNG EINES FAHRZEUGES MIT BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF RALENTISSEUR MONTE DANS LE CIRCUIT D'ECHAPPEMENT DES GAZ D'UN VEHICULE EQUIPE D'UN MOTEUR A COMBUSTION

Publication

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Application

**EP 99915821 A 19990422**

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Abstract (en)

[origin: US6273059B1] A decelerator device for obtains constant and maximal decelerating power whatever the engine speed, by controlling the pressure of the gases upstream of the valve by balancing the efforts at the actuator cylinder rod. The decelerator device (1) includes a balancing device (25) incorporated in the actuator cylinder (9), cylinder rod (12) dissociated from the piston (11) and a calibrated spring member (26) mounted between them. When the valve (7) is closed and, based on a counter-pressure predetermined by the spring member calibration, the actuator rod (12) moves back by stroke C' which causes the valve (7) to open by an angle prop generating a leakage of the exhaust gases. Beyond the. threshold, the valve (7) reopening angle varies according the exhaust gas pressure thereby ensuring a constant and maximal counter-pressure whatever the engine speed. The invention is applicable to combustion engines and in particular to industrial vehicles.

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