

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

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Abstract (en)

[origin: US6273058B1] A decelerator device obtains constant and maximal decelerating power includes by controlling the gas pressure upstream of the valve by balancing the efforts at the pressure-relief valve. The decelerator device (1) includes a balancing device (20) incorporated in the gate (2) body (4) and has a leakage conduit (21) controlled by a calibrated check valve (22). When the valve (7) is closed and, based on a counter-pressure threshold predetermined by the calibration of the compression spring (27) provided at the check valve (22) rear, the latter is lifted from its seat (25) and communicates the channel (5) upstream of the valve (7) with the leakage duct (21) generating an exhaust gas leakage. Beyond the threshold, the calibrated check valve (22) remains open, thereby ensuring constant and maximal counter-pressure whatever the engine speed. The invention is applicable to combustion engine vehicles and in particular industrial vehicles.

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