Abstract

Decelerator device mounted in the exhaust gas circuit of a vehicle equipped with a combustion engine

The present invention relates to a decelerator device making it possible to obtain a constant and maximum decelerating power whatever the engine's speed and from low speeds onwards, by controlling the gas pressure upstream from the shutter balancing the forces at a relief valve

The deceleration device (1) est characterized in that it comprises a balancing device (20) incorporated into the body (4) of the valve (2) and comprising an outlet pipe (21) controlled by a calibrated flap (22). When the shutter (7) is closed and on reaching a back-pressure threshold which is predetermined by the calibration of a compression spring (27) provided at the rear of said flap (22), the latter is lifted from its seat (25) and allows the channel (5) upstream from the shutter (7) to communicate the outlet pipe (21) generating an exhaust gas leak. Beyond this threshold, the calibrated flap (22) remains open, which ensures a constant and maximum back-pressure whatever the engine's speed.

Application : Vehicles equipped with a combustion engine and particularly industrial vehicles.

Figure 4.