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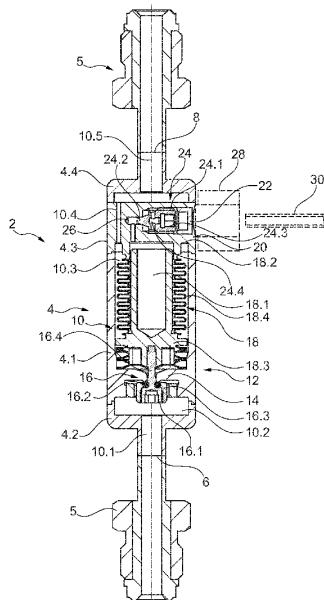


Fig. 1

(57) Abstract: The invention is directed to a pressure regulator (2) for compressed gas, comprising a body (4) with a gas inlet (6), a gas outlet (8) and a gas passage (10) interconnecting said gas inlet with said gas outlet; a shut-off device (12) comprising a seat (14) located in the gas passage (10); a shutter (16) configured for cooperating the seat (14); a pressure sensing assembly (18) defining an internal volume (18.1) filled with an auxiliary gas and closed by a plug (24), said pressure sensing assembly being elastically deformable and located in the gas passage downstream of the seat (14), said pressure sensing assembly being configured for actuating the shutter (16) relative to the seat (14) depending on a gas pressure downstream of the seat; a port (20) fluidly connected, via the plug (24), to the internal volume (18.1), and configured for fluidly connecting an external source (28) of the auxiliary gas to said internal volume for adjusting a pressure of the auxiliary gas in said internal volume.