Title (en)

SHOT-VELOCITY REGULATOR FOR GAS-OPERATED FIREARMS

Publication

EP 0167067 B1 19871209 (DE)

Application

EP 85107606 A 19850620

Priority

CH 318784 A 19840703

Abstract (en)

[origin: US4611525A] It is necessary to provide a cadence regulator in a gas-pressure operated firing weapon, since a hot firing weapon would otherwise exhibit a cadence unacceptably greater than that of a cold firing weapon. The cadence regulator comprises two concentric tubes interconnected at one end and serving for actuating a temperature-dependent throttling member which regulates the gas-pressure by altering a throttling cross-section of a gas passage. Either only the inner tube is heated, causing it to expand more than the outer tube and to reduce the throttling cross-section, or both tubes are heated and the outer tube has a greater coefficient of expansion such that it expands more than the inner tube and increases the throttling cross-section. In the first case, the supply of gas to a gas piston is throttled and thereby diminished in pressure and in the second case, a discharge opening to the atmosphere is increased, also effectively diminishing the pressure of the supply of gas to the gas piston.

IPC 1-7

F41D 11/08; F41D 5/08

IPC 8 full level

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CPC (source: EP US)

F41A 5/28 (2013.01 - EP US)

Cited by

EP1052470A3; US4798124A; AU2006334788B2; US2023228507A1; US9719739B2; US7621210B2; WO2007079879A1; EP1797389B1

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