

Title (en)

VELOCITY SIMULATOR FOR MONITORING THE RECOILING AND RETURNING PARTS OF A LARGE-CALIBRE WEAPON BARREL

Publication

EP 0160735 B1 19880928 (DE)

Application

EP 84112172 A 19841011

Priority

DE 3345768 A 19831217

Abstract (en)

[origin: US4591342A] An improved velocity simulator which simulates the control movements of a large caliber gun barrel recoil and counter-recoil in a constricted chamber where there is provided a mechanism for controlling and checking the recoil and counter-recoil moving parts, in particular for controlling and checking the movements of the breech mechanism and the loading process. These movements generally have variable velocities and the control movements thereof can be interrupted randomly and without danger, which velocity simulator is adapted to be placed in operation whereby the gun barrel is adapted to be moved to its initial position by the velocity simulator against the force of a counter-recoil mechanism. The velocity simulator consists of a modular construction which connects hydraulically the driven control part and piston cylinder unit to a hydraulic power supply source whereby the control movement of a recoil and counter-recoil mechanism have an adjustable velocity, as well as a rapid operable movement. The adjusted velocities of the simulator correspond to the maximum counter recoil velocity and randomly safe interruptions of the recoil and counter-recoil movements are possible. The velocity simulator has a relatively short constructional length which is smaller than twice the stroke length so that when in an index position of the gun barrel, it can be mounted manually in a constricted space, between the bottom member and the turret rim. The velocity simulator is coupled via attachable couplings to the fluid pressure source of the large caliber gun barrel.

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