

Title (en)
A RECOILLESS GUN

Title (de)
RÜCKSTOSSFREIE WAFFE

Title (fr)
ARME SANS REcul

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Application
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Abstract (en)

The invention relates to the defense technology, namely the recoilless rifle guns, and can be used in weapons systems for ground and air targets. Summary of the invention consists in using a two-stage scheme of throwing a projectile or bomblets or finishing items affecting in the recoilless rifle with counterweight. The Recoilless rifle is an thermal impulse machine, structurally, consisting of trunk, body (aka counterweight), shot, consisting of a chassis that includes shell or ready striking elements and propelling charge, the core of the valve, a tube with the female side of the breech area, that one party, tightly in the building shot, while the other rests, on the counterweight, the placed in the space between the pad core valve with counterweight and a shot of electric initiator and initial propellant charge. Under the action of electric or other subsequent initiation initiator starter propellant charge, calls the movement along a trunk in opposite directions, chassis shot and valve core to push counterweight to compensate for the recoil impulse, the output axis of the valve core out of the shot allows the gases start propellant charge to penetrate the chassis /body shot and initiate the propellant charge shot, that, in turn, will cause the increase of pressure in order to obtain the desired initial speed projectile or striking submunitions, the resulting impact will be offset by additional momentum to the movement of the chassis/body shot and expired gas propellant charge in a region of lower pressure formed in the shot hole, causing acceleration of the valve rod and counterweight. The proposed invention can provide enhanced range and minimal recoil impulse by a constructive solution, that includes a two-tier scheme of throwing a projectile or manufactured submunitions, though simple in terms of technology, that determines it's mass production at low cost and high "efficiency-cost" in solving problems.

IPC 8 full level
F41A 1/10 (2006.01)

CPC (source: EP)
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Citation (applicant)
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