

Title (en)
Gas-operated automatic gun.

Title (de)
Gasbetriebenes automatisches Gewehr.

Title (fr)
Fusil automatique à emprunt de gaz.

Publication
EP 0107524 A1 19840502 (FR)

Application
EP 83401721 A 19830830

Priority
FR 8217820 A 19821025

Abstract (en)
1. Automatic gun with gas tapping, of the type in which the mechanism (15) for locking/unlocking the arm, and which provides also the discharge of the cartridge case, and which is housed within the breech box (2) is automatically actuated at the time of unlocking under the effect of a gas tapping in the barrel (1) and is returned automatically in the locking position by a recovery spring (18) which provides also the feeding of a fresh cartridge located within a tube-magazine (3), said gun being of the type having a piston (9) driven by the force of the gases tapped from the barrel sliding within the fastening piece (6) of the barrel and surrounding the tube-magazine, said piston consisting of a cylindrical block having a section fitting within a recess of the annular piece and delimitating an annular chamber (11) for the storage of the gases, said piston (9) co-operating during the movement thereof with means (13) for transmitting the motion of the piston comprising lateral arms and permitting the operation of the mechanism (15) for the locking/unlocking of the arm through the intermediary of control means (14), characterized in that the transmission means (13) comprise two endwise juxtaposed rings coaxial rings (16-17) mounted slidably on the tube-magazine, one of which (the ring 16) is provided with two lateral longitudinal U-shaped notches (23) opening horizontally outwardly, the other one (the ring 17) being provided with two lateral longitudinal U-shaped notches (25) opening vertically upwardly, and include two flat and elongated lateral arms (19, 20) each one of which is engaged within a horizontal notch (23) and a vertical notch (25) both located on the same side of the barrel (1), the ends of said arms directed towards the breech box (5) being arranged to be associated with the intermediate means (14) for the control of the locking/unlocking mechanism (15), said means being capable of driving freely said mechanism within the breech box (2) to cause this mechanism to be locked/unlocked relative to the barrel (1).

Abstract (fr)
L'invention concerne un fusil automatique à emprunt de gaz. Le problème technique posé consiste à réaliser un tel fusil à fixation simplifiée et fiable des pièces internes. Suivant l'invention, ce fusil comporte un piston (9) en forme de bloc cylindrique lisse coulissant dans une pièce d'attache (6) du canon et entourant le tube magasin (3) et délimitant avec la pièce d'attache une chambre annulaire (11) d'emmagasinement des gaz empruntés au canon (1), des moyens (13) de transmission du mouvement du piston au mécanisme de verrouillage/déverrouillage, librement mobiles, entre la face arrière du piston (9) et un ressort récupérateur (18) et des moyens intermédiaires (14) de commande du mécanisme (15) aptes à entraîner ce dernier dans la boîte de culasse (2), les moyens (13) de transmission et les moyens (14) de commande étant respectivement constitués par des pièces accouplées exclusivement entre elles par des organes de liaison de forme complémentaire. Application notamment aux fusils à emprunt.

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F41A 5/18 (2006.01)

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Citation (search report)
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