

Title (en)
REPEATING FIRING MECHANISM FOR GUNS

Publication
EP 0280843 B1 19900523 (DE)

Application
EP 88100232 A 19880109

Priority
DE 3707063 A 19870305

Abstract (en)
[origin: EP0280843A1] 1. Repeating device (1) for a firing mechanism in a barrel weapon the device having a housing (9) a firing shaft (2) and means for effecting an axial movement (3) of a firing pin (4) for a detonating device in the barrel, characterised by the following features : a) the firing shaft (2) is connected with a first body (5) so that it is positively locked in a peripheral direction (6.1) but displaceable in an axially parallel direction (6.2) ; b) the first body (5) is provided, for parallel displacement, with a rack system (8) arranged annularly and perpendicularly to the median axis (7) and directed towards the pin (4) and slidably resting, under the force of a first spring (12), against a plate (11) affixed to the side (14) of the pin (4) on the housing (9) of the device (1), and having an annular rack system (10) ; c) within the first body (5) is an axially displaceable second body (13) which is connected with the pin (4) and which, when the device (1) occupies the position of rest and throughout an initial lift range (15) of the body (5), under the force of a second spring (19) resting on the side (14) on the housing (9), rests against a stop (16) of the first body (5) and remains, in a residual range of a total lift (18) of the body (5), against a stop (17) of the firing shaft (2) and, in order to maintain that deflection (3) of the pin (4) which is required for the detonation, is provided, at a distance (21) from the side (14) of the housing (9) which corresponds to the deflection (3), with a stop (20) directed towards the pin (4), while after the maximum compression stroke (18) of the first spring (12) has been reached and after departing from the support provided for the first body (5) by the toothing system (10) and after an acceleration imparted by the first spring (12) to the first body (5) in the lift range (18) and to the second body (13) in the partial range (15) of the stroke (18), bridges the additional distance (21), solely as a result of kinetic energy (13) and rests for a short time against the housing (9).

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