

May 30, 1933.

R. V. FROMMER

1,911,859

TRIGGER AND SAFETY DEVICE FOR FIREARMS

Filed Dec. 3, 1931

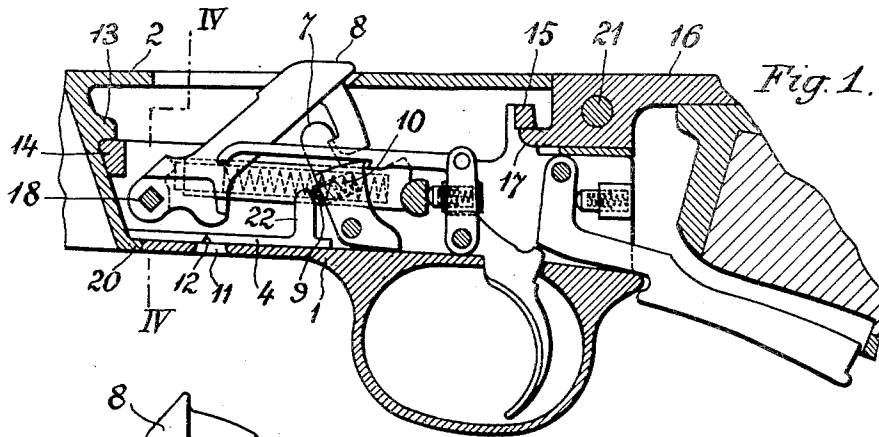


Fig. 1.

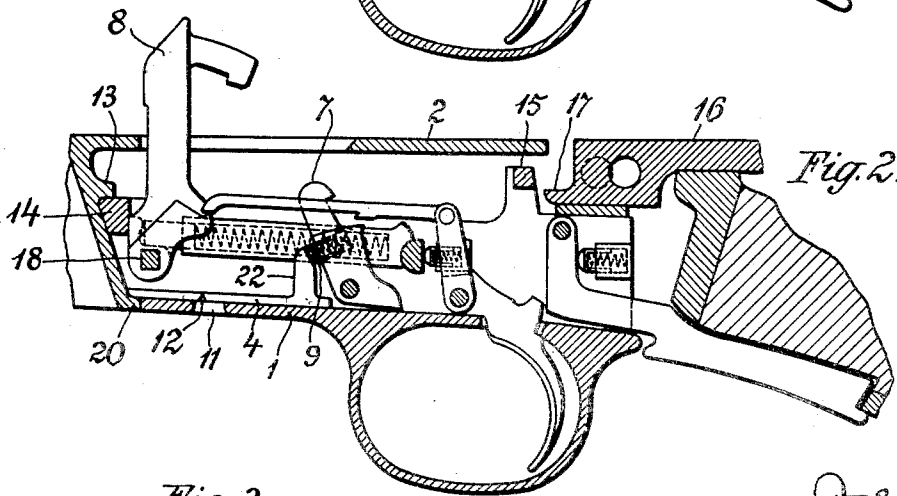


Fig. 2.

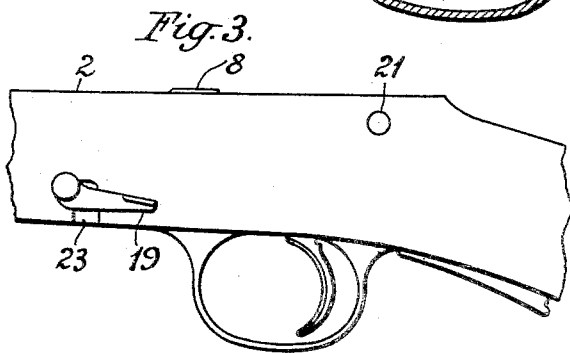


Fig. 3.

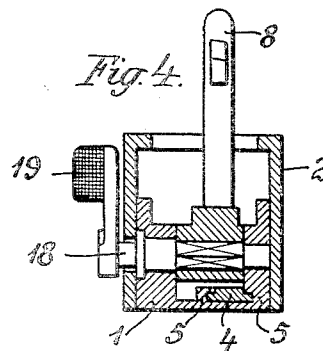


Fig. 4.

Inventor:
Rudolf v. Frommer
by S. Lohr,
Attorney.

UNITED STATES PATENT OFFICE

RUDOLF v. FROMMER, OF BUDAPEST, HUNGARY

TRIGGER AND SAFETY DEVICE FOR FIREARMS

Application filed December 3, 1931, Serial No. 578,642, and in Hungary December 9, 1930.

The present invention relates to a fire arm the trigger and safety device of which can easily be put together with the trigger plate as an integral whole into the casing of the fire arm and can be removed from it in the same way.

According to the invention the trigger plate constitutes the bottom of a frame in which the trigger and safety device is mounted, whereby not only a simple and light construction is attained, but also perfect bearings are provided for all the pivots of the trigger and safety device, and no locking mechanism is needed for these pivots. Another advantage of the invention is that the trigger and safety device is fully protected against penetration of dust. Further objects of the invention will be described in connection with the drawing which shows one form of the invention by way of example.

Fig. 1 is a longitudinal sectional view of one part of a fire arm provided with the new trigger and safety device which is fixed in the fire arm, the hammer being cocked and the trigger locked.

Fig. 2 is the same view but in the uncocked position of the hammer and unlocked position of the trigger, and with the trigger and safety device not fixed in the fire arm.

Fig. 3 is a partial side view of the fire arm.

Fig. 4 is a section taken on line IV—IV of Fig. 1.

The trigger and safety device is mounted in the frame 1 which can be pushed into the casing 2 of the fire arm from below. In order to fix the frame 1 in the casing 2 a slide 4 is provided on the bottom of the frame 1, this slide being shiftable in the guides 5 of the frame. The front end of the slide 4 bears on a projection 20 of the casing 2 and prevents the front end of the frame from falling out of the casing. The slide 4 may be shifted by the aid of its cavity 12 which is accessible through the opening 11 on the bottom of the casing 2 which constitutes the trigger plate, so that the slide can be moved by means of a pointed object for instance a cartridge.

In order to fix the slide 4 in its locking position it is preferably spring controlled. For this purpose the spring 10 may be used,

which is situated inside the hook 7 holding the hammer 8 of the fire arm in its cocked position. The spring 10 presses its protecting sleeve 9 against a projection 22 of the slide 4, holding the latter in its locking position. A shifting of the front part of the frame 1 in the upward direction is prevented by a nose 13 against which the rib 14 of the frame bears.

In order to fix the rear part of the frame the latter is provided with a rib 15 running in a crossward direction and resting on a projection 17 of a slide 16 shiftable in the casing 2. The slide 16 is secured in the casing by a bolt 21.

By shifting the slide 4 to the right, and by removing the bolt 21 and shifting the slide 16 also to the right, the frame 1 can easily be pulled out of the casing 2.

The axle 18 of the hammer 8 is pivoted in the frame 1 and holds the hammer with its middle portion having a square cross section. For the purpose of cocking the hammer 8, the axle 18 is provided on its end projecting out of the casing 2, with a handle 19. In order to enable the frame 1 to be pushed into the casing 2 in spite of the end portion of the axle 18 projecting to the outside, a slot 23 is provided in the side wall of the casing, said slot being covered by the wall of the frame 1 in such a way that no dust or impurities can penetrate in the interior of the fire arm at this place.

It will be understood that except the axle 18 of the hammer, all the pivots of the trigger and safety device are pivoted only in the side walls of the frame 1; so it is superfluous to lock the pivots against falling out by means of screw-threads or the like, as the walls of the casing 2 fully prevent them from leaving their place. This fact greatly facilitates the manufacturing of the fire arm according to the invention.

I claim:

In a fire arm a casing, a trigger and safety device having a hammer and situated within said casing, a frame containing said trigger and safety device and adapted to be easily put into and removed from said casing, the bottom of said frame forming the trigger plate

of the fire arm, a slide provided within said casing and adapted to fix the front end of said frame, another slide provided in the interior of said casing and adapted to fix the rear end of the frame, a hook adapted to fix said hammer in the cocked position, a spring situated in the interior of said hook and controlling the movements of said slide fixing the front end of the frame.

10 In testimony whereof I affix my signature.
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