

A. H. STOCKWELL.

FIREARM.

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954,657.

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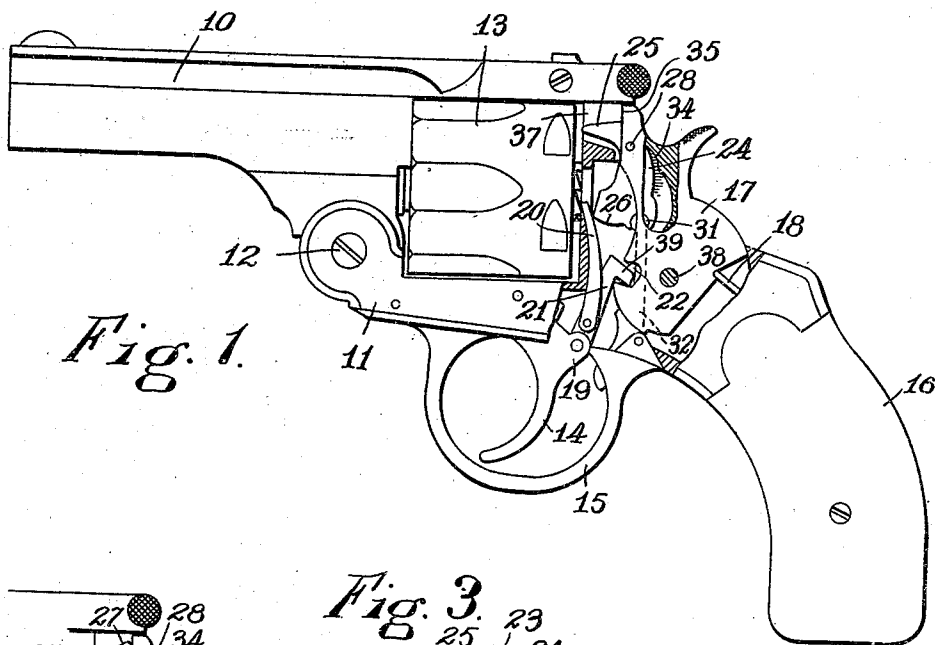


Fig. 1.

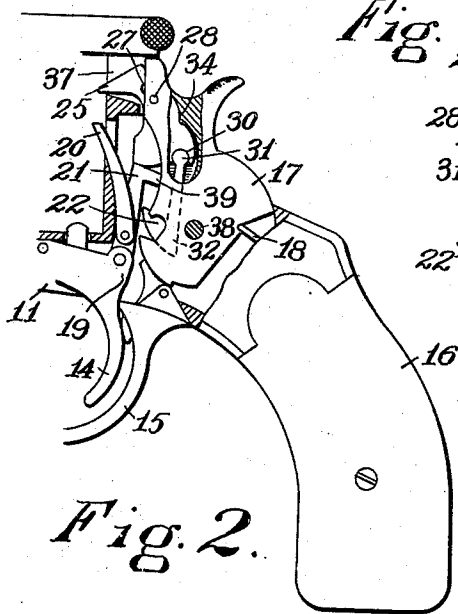


Fig. 2.

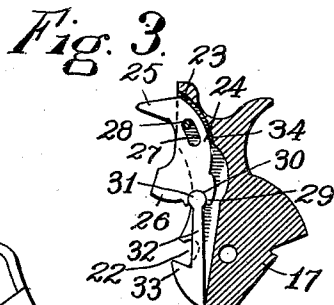


Fig. 3.

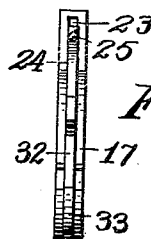
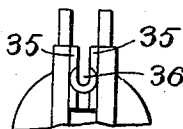


Fig. 4.

Fig. 5.



Witnesses

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FIREARM.

954,657.

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To all whom it may concern:

Be it known that I, ABNER H. STOCKWELL, a citizen of the United States, residing at Worcester, in the county of Worcester, State of Massachusetts, have invented a certain new and useful Improvement in Firearms, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to firearms, but more particularly to safety mechanisms for the same, in which the firing pin or striking nose is normally prevented from coming in contact with the cartridge. Heretofore, such devices have generally consisted of a firing pin controlled by the trigger and interposed between the striking face of the hammer and the cartridge at the instant of the escape of the hammer, or of a stop which normally prevented the firing pin or striking nose from coming in contact with the cartridge. The first of these may be satisfactorily used in large weapons, but requires too much space for a small one as the hammer must necessarily be set back a considerable distance from the recoil plate to allow this pin to operate. The second or stop form is open to the same objection as the first, and has the further objection of not being as safe, for the firing pin or striking nose is always maintained in a position opposite the opening in the recoil plate. If the stop should break, the hammer would drop and discharge the cartridge. Another form in use at the present time is the hammer provided with a sliding face, as is shown in the Letters Patent No. 649,809 of May 15, 1900, and No. 658,314 of Sept. 18, 1900. In this type of mechanism it has generally been found necessary in practice to provide the piece with a rebounding lock.

In the present invention, a mechanism has been devised which may be placed in the frame of any revolver, as it requires no more space than the ordinary hammer, the hammer can never be driven against the cartridge as it normally rests upon solid shoulders in the frame, and no rebounding lock is necessary for the construction of the mechanism is such that the parts will fall of their own weight upon the release of the trigger.

This device preferably consists of a striking nose movably mounted upon the ham-

mer, and normally maintained in such a position that it can not strike the cartridge. This nose is preferably controlled by the trigger, so that it is brought into position when the trigger is pulled and held in this position until the trigger is released. In the drawings, the nose is shown as carried by a body operating in a slot within the hammer, but it may readily be seen that this body might be mounted upon either face of the hammer, if desired.

One embodiment of the invention is shown in the drawings in which:—

Figure 1 is a side elevation of the invention complete with portions of the frame removed to show the interior mechanism, the parts being in their normal position. Fig. 2, same as Fig. 1, but with the parts in their relative position at the point of discharge. Fig. 3, a detailed view of a portion of the mechanism, as will be described hereinafter. Fig. 4, front view of portions of mechanism shown in Fig. 3. Fig. 5, rear view of a portion of the frame, showing the shoulders upon which the hammer normally rests, as will be described hereinafter.

Referring to the drawings, a barrel 10 is pivoted upon the frame 11 by means of the pivot pin 12. Upon the barrel is secured the cylinder 13 in the usual manner. Other parts which are common to all firearms of this type are the trigger 14, trigger guard 15, stock 16, hammer 17, and the main spring 18. To the heel 19 of the trigger 14 is pivoted the cylinder operating pawl 20 and the lifter or pawl 21. This lifter is adapted to engage the notch 22 in the hammer 17 to cock the piece. Within the hammer 17 is a slot 23 in which slides the flat body 24. This body is provided with a forwardly extending projection 25 which forms the nose to discharge the cartridge, and the shoulder 26 is adapted to engage the lifter after the latter is released from the notch 22, as will be described hereinafter. This body 24 is provided with a slot 27 through which passes a pin 28 to prevent the body from falling out of the slot in the hammer. In the lower rearward corner 29 of this body is a recess 30 to contain the dolls head 31 upon the arm 32. This arm is provided with a lug or shoulder 33 to engage the lifter or pawl 21 when the trigger is released, as will be described hereinafter. The shoulder 26 of the

body 24 receives the impact of the upper end of the lifter or pawl 21 after this has escaped from the notch 22.

The slot 23 in the hammer 17 is so constructed that its rear face 34 forms a guide surface to cause the nose 25 to be advanced as it is raised by the lifter 21. When the body 24 is in the position shown in Fig. 1, the hammer rests upon the shoulders 35 without causing the nose 25 to enter the opening 36 in the recoil plates 37, but when the body is in the position shown in Fig. 2, the nose is driven into this opening and discharges the cartridge.

As the trigger is pressed, the lifter or pawl 21 swings the hammer on its pivot 38 until it reaches the point where this pawl escapes from the notch 22 and releases the hammer. As the hammer descends, the lifter presses upward on the shoulder 26 of the flat body 24, and causes the nose to be raised and advanced in the manner above described. As the trigger is released, the lug 39 on the pawl 21 engages the lug 33 on the arm 32, and pulls the body into the normal position as shown in Fig. 1, thus providing a positive return for the same.

It should be clearly understood that the invention is not limited to the particular construction and arrangement of parts herein shown and described, as a large number of modifications of the same might be made without departing from the scope of the invention.

What I claim as my invention and desire to secure by Letters Patent is:—

1. In a device of the class described, the combination with a frame having a hammer and a trigger mounted thereon, of a striking nose movably mounted upon said hammer and normally resting in an inoperative position, and means for moving said member into a position to strike the cartridge.

2. In a device of the class described, the combination with a frame having a hammer

and a trigger mounted thereon, of a striking nose movably mounted upon the hammer and normally maintained in an inoperative position, and a lifter mounted upon the trigger and adapted to move this member into a position to strike the cartridge.

3. In a device of the class described, the combination with a frame having a hammer and a trigger mounted thereon, of a striking nose movably mounted upon the hammer and normally maintained in an inoperative position, means for moving this member into a position to strike the cartridge, and means for withdrawing the same from this position.

4. In a device of the class described, the combination with a frame having a hammer and a trigger mounted thereon, of a striking nose slidably mounted in a slot in said hammer and normally resting in an inoperative position, and means for moving said nose into a position to strike the cartridge.

5. In a device of the class described, the combination with a frame having a hammer and a trigger mounted thereon, of a striking nose slidably mounted in a slot in said hammer and normally resting in an inoperative position, means for retaining said nose in said slot, and means for moving the nose into a position to strike the cartridge.

6. In a device of the class described, the combination with a frame having a hammer and a trigger mounted thereon, of a striking nose slidably mounted in a slot in said hammer and normally resting in an inoperative position, and a lifter acting in conjunction with the sides of said slot to cause said nose to be moved into a position to strike the cartridge.

In testimony whereof I affix my signature in presence of two witnesses.

ABNER H. STOCKWELL.

Witnesses:

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ALMA H. NELSON.