A. J. AUBREY.

FIREARM.

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911,362.

Patented Feb. 2, 1909.

Fig. 1.

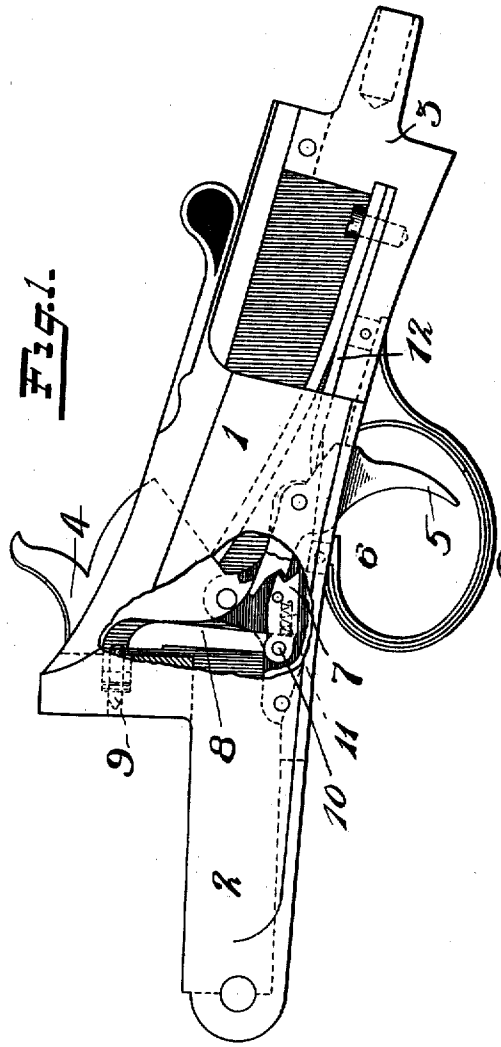
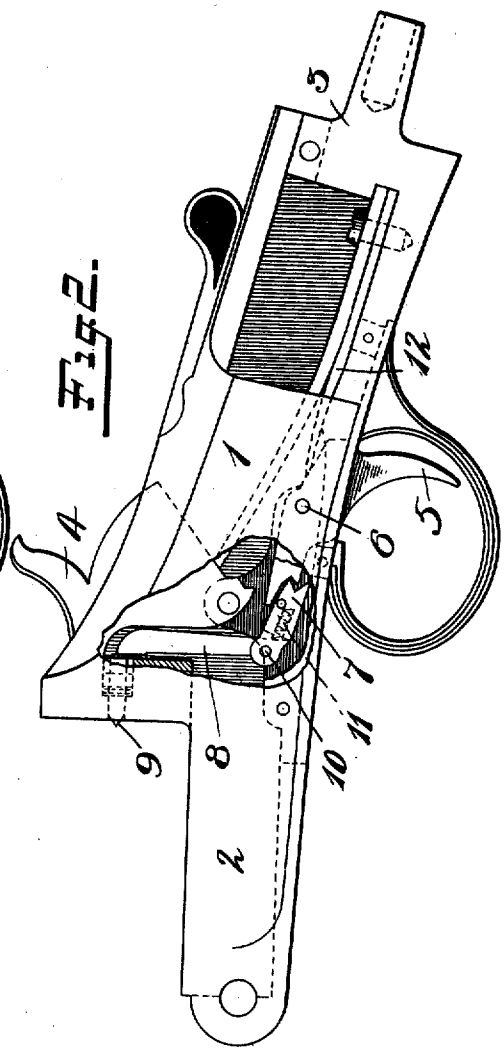


Fig. 2.



Witnesses:

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FIREARM.

No. 911,362. Specification of Letters Patent. Patented Feb. 2, 1909.

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To all whom it may concern:

Be it known that I, ALBERT J. AUBREY, a citizen of the United States, residing at Meriden, county of New Haven, State of Connecticut, have invented certain new and useful Improvements in Firearms, of which the following is a full, clear, and exact description.

My invention relates to an improvement in fire arms, and particularly to a safety hammer therefor.

The object of the invention is to provide simple and effective means for preventing the accidental discharge of the fire arm while the hammer is down.

In the accompanying drawings, Figure 1 is a side elevation of the breech portion of a gun illustrating the various internal parts in one position; Fig. 2 is a similar view illustrating certain internal parts in another position.

1 represents the frame, 2 the forward extension, 3 the rear tang for connecting the stock (not shown).

4 represents the hammer.

5 is the trigger. 6 is a pivot therefor.

7 is a lever pivotally mounted to tilt in the frame 1. The lever 7 is tilted by the trigger 5, a suitable connection being made between said parts so that when the trigger is moved to and fro by the finger, said lever will be tilted for the purpose hereinafter described.

8 represents a safety block carried by the lever 7, so that when the latter is tilted, the block 8 will be raised and lowered.

9 is a spring-retracted firing pin, normally repressed, and standing just above the upper end of the safety block 8. The hammer 4 has a recess to receive said safety block 8. In the particular form shown, the safety block 8 is pivoted at 10 to the forward end of the lever 7 and a spring 11 normally causes said block 8 to swing back until it bears against the hammer 4, as shown in the several views. The hammer 4 is provided with the usual notch to be engaged by the forward end of the trigger 5. When the hammer is cocked this notch is presented adjacent to the end of the trigger 5, which swings into position under the action of the usual spring 12, to engage said hammer in its cocked position. When the trigger 5 is pulled, this act not only frees the hammer, but simultaneously therewith lifts the safety block 8 to the elevation shown in Fig. 2, so that when the hammer 4 springs ahead it will be coupled with the firing pin 9 through the medium of said safety block 8, and force said firing pin ahead, as shown in Fig. 2, the safety block 8 acting as a coupling device. The moment the trigger 5 is released, it assumes the position shown in Fig. 1, and while moving to said position, it again tilts the lever 7, drawing the safety block 8 down to the position shown in Fig. 1, and away from the firing pin. The hammer 4 never touches the firing pin, but when advanced bears against the forward reinforce of frame 1, where it is supported. In this position, the safety block 8 is likewise away from the firing pin. Hence, by no possibility can said firing pin be actuated and the cartridge discharged, so long as the hammer is down. If, by accident, a blow should be imparted to the hammer 4 when it is in the position shown in Fig. 1, it is impossible for the force of said blow to be transmitted to said firing pin. Consequently, a gun so constructed may be left loaded with perfect impunity.

I have not shown the barrel or stock, as such parts will be well understood.

While I have shown the invention in a preferred form, obviously certain changes may be made in arrangement and design without departing from the spirit of the invention.

What I claim is:

1. In a firearm, a hammer, a trigger arranged to coöperate with the hammer, a firing pin, a safety block arranged adjacent to the space between the hammer and firing pin and independent of each, and an intermediate connection between the said block and the trigger to move said safety block at will into said space.

2. In a firearm, a hammer, a trigger arranged to coöperate with the hammer, a firing pin normally spaced apart from said hammer, a safety block independent of the hammer, and a connection between the trigger and said block to shift the latter into the space between the hammer and firing pin when the gun is fired.

3. In a firearm, a hammer, a trigger arranged to coöperate therewith, a firing pin normally spaced away from the hammer, a movable safety block independent of the hammer and arranged to be shifted into said space and a tilting connecting device between said trigger and safety block for shifting the latter into the space between the hammer

and firing pin when the gun is about to be fired.

4. In a firearm, a hammer, a trigger, a firing pin spaced away from said hammer at all times, a safety block independent of the hammer and arranged to be projected into the space between the hammer and firing pin when the gun is to be fired, a trigger coöperating with the hammer to hold it in its cocked position and a pivoted lever between the trigger and block, said block and lever being pivotally connected.

5. In a firearm, a hammer, a firing pin always spaced apart therefrom, a safety block independent of the hammer and arranged to be moved into the space between the said hammer and firing pin but normally retracted therefrom, means for simultaneously releasing the hammer from its cocked position and shifting said safety block into the space between said hammer and firing pin.

6. In a firearm, a hammer, a firing pin always spaced apart therefrom, a safety block independent of the hammer and arranged to be moved into the space between the said hammer and firing pin but normally retracted therefrom, and means for simultaneously releasing the hammer from its cocked position and shifting said safety block into the space between said hammer and firing pin, said means comprising a trigger and lever.

7. In a firearm, a hammer, a firing pin always spaced apart therefrom, a safety block independent of the hammer and arranged to be moved into the space between the said hammer and firing pin but normally retracted therefrom, and means for simultaneously releasing the hammer from its cocked position and shifting said safety block into the space between said hammer and firing pin, said means comprising a trigger and tilting lever.

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Witnesses:
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