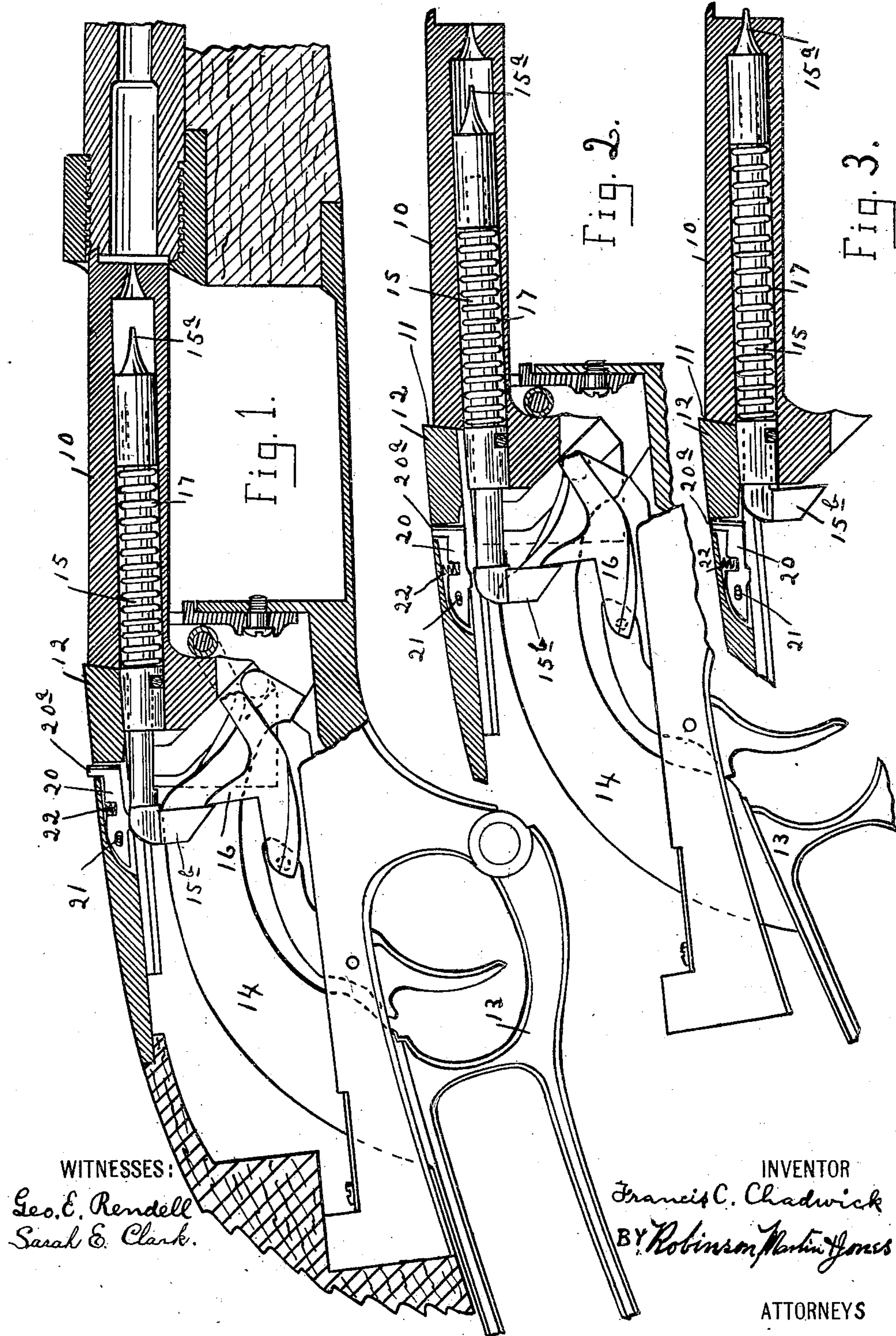


F. C. CHADWICK.
HAMMER INDICATOR FOR FIREARMS.
APPLICATION FILED FEB. 20, 1909.

923,244.

Patented June 1, 1909.



UNITED STATES PATENT OFFICE.

FRANCIS C. CHADWICK, OF UTICA, NEW YORK, ASSIGNOR TO SAVAGE ARMS COMPANY, OF FRANKFORT, NEW YORK.

HAMMER-INDICATOR FOR FIREARMS.

No. 923,244.

Specification of Letters Patent.

Patented June 1, 1909.

Application filed February 20, 1909. Serial No. 479,276.

To all whom it may concern:

Be it known that I, FRANCIS C. CHADWICK, of Utica, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Hammer-Indicators for Firearms; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form part of this specification.

The object of my present invention is to provide a hammer indicator for so-called hammerless fire arms, which will accurately indicate the position of the hammer or firing mechanism, and which is simple and efficient and particularly adapted to certain classes of fire arms.

Figure 1 shows a longitudinal vertical sectional view of a fire arm embodying my present improvements, the firing-pin hammer being in cocked position and the indicator indicating accordingly. Fig. 2 shows part of the same parts shown in Fig. 1 in the position of the firing-pin hammer just prior to the breech block being completely locked and ready for firing. Fig. 3 is a sectional view in part the same as Fig. 1, showing the position of the firing-pin hammer and the indicator after firing.

Referring to the reference letters and figures in a more particular description, 10 indicates the breech bolt of the fire arm which has a rising and falling movement at its rear end to engage and disengage the breech-up shoulder 11 on the frame 12, being actuated in the rising and falling movement, as well as in the opening and closing sliding movement, by the hand lever 13 having the curved arm 14 connecting with the breech bolt. The firing-pin hammer 15 is in the main a sliding spindle or shaft carrying the firing pin point 15^a adapted to strike the cartridge primer at the forward end and having a hook-like projection 15^b adapted to engage with the sear 16 at the rear end, the body of the firing-pin hammer being located in a longitudinal hole in the breech bolt. The firing pin is actuated by the spring 17. The

indicator consists of a lever 20 located in a recess in the frame and at one end mounted upon a fixed pin 21 and at the other end provided with a pin or projection 20^a operating in and through a hole in the top of the frame. For retiring the pin 20^a there is provided a spring 22 conveniently arranged and held largely in a notch in the top of the lever 20. Adjacent to the pin 21 the lever 20 is provided on the underside with an enlargement adapted to be engaged by the rear end of the firing-pin hammer when held by the sear in its cocked position, and the breech block in its completely closed position.

The hammer projects when cocked from the rear end of the breech bolt, and, as the rear end of the breech bolt completes its final upward movement in locking the rear end of the hammer, strikes the projection on the indicator lever, forcing it upwardly against the tension of the spring 22 and exposing the projection 20^a above the surface of the frame. When the hammer is released from the sear and moved to its forward position, the rear projecting end is withdrawn from its engagement with the indicator and the externally projecting part of the indicator is promptly withdrawn by the operation of the spring 22. By having the hammer engage the lever 20 adjacent to its pivotal point, the final upward movement of the hammer in operating the indicator is very little, while the movement of the projection 20^a may be considerable.

By the arrangement of parts shown the indicator can not indicate that the fire arm is in condition for firing until the last stages of the closing operation have taken place, and upon the falling of the hammer the position of the indicator is at once shifted.

What I claim as new and desire to secure by Letters Patent is:

In an indicator mechanism for fire arms, the combination of a frame, a breech bolt having a rising and falling movement at its rear end, a firing pin hammer mounted for longitudinal movement in the breech bolt and projecting from the rear end of the breech bolt when cocked, an indicator consisting of a lever mounted on a fixed pivot in the frame at the rear of the breech bolt and a pin adapted to be projected through a hole

in the frame, the indicator lever being arranged to be engaged and operated by the rear end of the firing pin as the bolt rises to its final breech-up position and have the firing pin withdrawn from under the indicator when fired, substantially as set forth.

In witness whereof, I have affixed my sig-

nature, in presence of two witnesses, this 8th day of February, 1909.

FRANCIS C. CHADWICK.

Witnesses:

EMMA S. HESSE,

SARAH E. CLARK.