SINGLE SHOT DROP BREECHBLOCK RIFLE
3 Claims. (Cl. 42—23)

ABSTRACT OF THE DISCLOSURE
This invention relates to single shot rifles having a drop breechblock, a hammer which operates in a recess in the breechblock which strikes a pivoted intermediate member which engages and drives the firing pin into contact with the cartridge primer.

RELATED APPLICATION

BACKGROUND OF INVENTION
(1) Field of Invention
The invention is in the field of single shot drop breechblock rifles and particularly deals with the firing pin and associated operating mechanism.

(2) Prior Art
Relevant prior art is not known.

SUMMARY OF INVENTION
This invention comprises a firing pin striker pivoted to the breechblock which is struck by the hammer to engage a spring-biased firing pin. The striker is pivoted at a point above the axes of the firing pin and is mounted between a limit stop and the firing pin. The striker has a contact area for the firing pin near the pivot axis and a longer depending part which is struck by the hammer. The resulting increased leverage and camming action of the hammer on the striker minimizes separation of the striker from the firing pin during firing and also greatly increases the force available to hold the firing pin against the cartridge primer and prevent blowback of the primer cap.

BRIEF DESCRIPTION OF DRAWINGS
FIG. 1 is a fragmentary receiver portion, with parts in vertical section, illustrating the invention, showing the hammer in cocked position, and FIG. 2 is a view similar to FIG. 1 showing the hammer at firing impact.

DESCRIPTION OF PREFERRED EMBODIMENT
The improvement on the rifle of application Ser. No. 550,214 illustrated in the drawings comprises a receiver 1, a barrel 2, and a breechblock 3 which is moveable (by means not shown) in the recess 4 in the receiver to the upward closed position for firing shown in FIG. 1 and to a lower position (not shown) for ejection of the empty case and loading.

The breechblock has a recess 5 in which the striker 6 is pivotally mounted on the cross pin 7 in the breechblock. The striker is limited in its rearward movement by the limit plug 10 and has a cam-like nose 11 engaging the threaded end 12 of the firing pin 13 which is biased by the spring 14. The lower or depending part of the striker 6 has a curved or cam-like nose 20 and the cam-like nose 11 is intermediate the pin 7 and the cam-like nose 20.

The hammer 15 is pivotally mounted on pin 16 in the receiver and is held in the cocked position shown in FIG. 1 by the ear 17. The hammer is driven by the strut 18 and as shown in FIG. 2, the ear has released the hammer which was driven by the strut to strike the cam-like nose 20 of the striker by the sloping cam surface 21 of the hammer to drive the firing pin against the cartridge primer 22. The forward motion of the firing pin is limited by the head 12 and the forward motion of the striker is limited by contact with the surface 23. As illustrated, the striker contacts surface 23 before the face of head 12 contacts its stop shoulder 24. The construction and arrangement of firing components illustrated effects a sliding or camming contact of the striker with the firing pin and also a sliding or camming contact of the hammer with the striker with the result that at the finite and critical moment of firing there is a relatively great mechanical advantage in the components holding the firing pin against the primer as shown in FIG. 2 which makes it possible to fire the large magnum cartridges or cartridges which generate high pressures without blowing the firing pin rearward.

We claim:
1. The improvement in drop breechblock rifles which comprises a receiver having a hammer therein, a drop breechblock movable upward and downward in the receiver, a firing pin in the breechblock, a striker pivotally mounted in the breechblock on a pin above the longitudinal axis of the firing pin, the striker having a lower contact part which is struck by the hammer, and an intermediate contact part on the striker between the pin and lower contact part which engages the firing pin.
2. The improvement in drop breechblock rifles defined in claim 1 in which the lower contact part has a cam-like nose and the hammer is sloped to effect a camming action when contacting the cam-like nose.
3. The improvement in drop breechblock rifles defined in claim 1 in which the intermediate contact part has a cam-like nose which engages the firing pin to effect a camming action on impact.

No references cited.

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