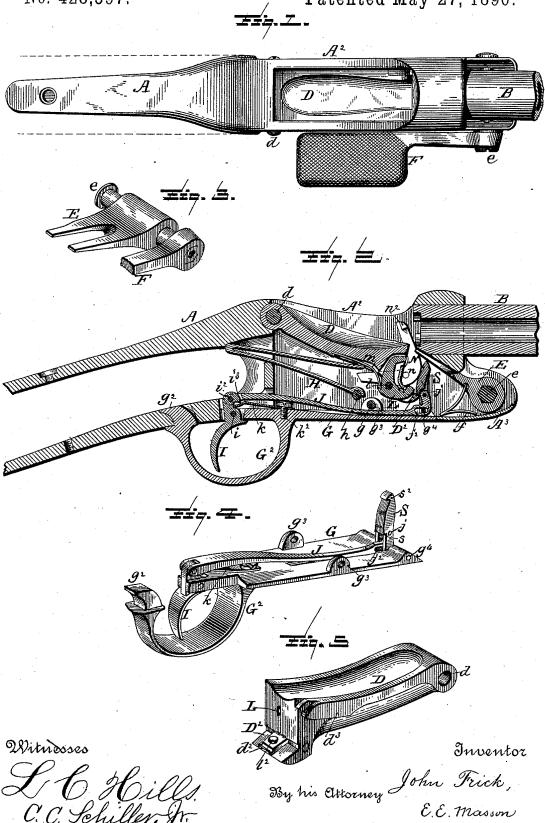
(No Model.)

J. FRICK. BREECH LOADING FIRE ARM.

No. 428,597.

Patented May 27, 1890.



UNITED STATES PATENT OFFICE.

JOHN FRICK, OF LARAMIE, WYOMING TERRITORY.

BREECH-LOADING FIRE-ARM.

SPECIFICATION forming part of Letters Patent No. 428,597, dated May 27, 1890.

Application filed February 24, 1890. Serial No. 341,548. (No model.)

To all whom it may concern:

Be it known that I, John Frick, a citizen of the United States, residing at Laramie, in the county of Albany and Territory of Wyoming, have invented certain new and useful Improvements in Breech-Loading Fire-Arms, of which the following is a specification, reference being had therein to the accompany-

ing drawings.

My invention relates to that class of breechloaders in which the breech-block is hinged at the rear and swings downward and carries the firing-pin pivoted to its front end; and the objects of my improvement are to make 15 a simple and strong breech-loader, in which the breech-block-depressing arm is pivoted to the frame in front of the breech-block, and the operating-lever of said arm is arranged on the side of the receiving-chamber in position 20 to be depressed either by the right hand or by the fingers of the left hand reaching from under the gun-barrel while said left hand is clasping the stock. I accomplish these objects by the construction illustrated in the 25 accompanying drawings, in which-

Figure 1 is a top view of a breech-loader constructed in accordance with my invention. Fig. 2 is a longitudinal vertical section of the same with the breech-block depressed and re-30 tained at full-cock, but with the shell-extractor rearwardly inclined in the position it occupies after a sudden depression of the breech-block and before the introduction of a cartridge within the barrel. Fig. 3 is a per-35 spective view of the breech-block-depressing arm and a portion of its operating-lever. Fig. 4 is a perspective view of the trigger-guard and plate carrying the sear, and the connecting-rod uniting said sear to the trigger; and 40 Fig. 5 is a perspective view of the breech-

In said drawings, A represents the frame, to which the barrel B is secured in the usual manner. Said frame has formed integral 45 therewith cheek-pieces A² and a bottom connecting-plate A³, uniting their front portions. The bottom between the cheek-pieces is closed by the trigger-guard plate G, which has at its rear end the trigger-guard G2. The rear end 50 of said guard is in the form of a hook g^2 , which engages in a perforation in the frame; but the guard-plate G is also secured to the I

cheek-pieces A^2 by a screw g passing through them and through lugs g^3 projecting up from the guard-plate into the cavity of the frame. 55 (The removal of the screws g and of the guard-

plate G permits access to the interior.)

The breech-block D is pivoted at d to the cheek-pieces and its rear end is strongly backed by the frame A'. It has its upper sur- 60 face concaved, as usual, to facilitate the introduction of a cartridge into the barrel of the gun. The lower portion of its front is provided with a forwardly-extended shelf D2, to permit said front end to be depressed by 65 the forked end of an arm E, pivoted at e to the front portion of the cheek-pieces of the frame. Said arm is adapted to be depressed by the operator to cock the gun by means of a hand-lever F, having one end secured to 70 polygonal pivot-bolt e and its opposite end presenting a broad surface along the right side of the frame and extending rearwardly to a point opposite the breech-block in a convenient position to be reached from under the 75 fire-arm by the ends of the fingers of the left hand of the operator supporting the gun. The forked arm E and its operating-lever F are kept normally elevated by a light folded leaf-spring f, having one end in engagement 80 with and pressing under said arm E, while the other end rests upon the bottom plate A^3 .

To promptly elevate the front end of the breech-block, when it is released by the sear S, a broad folded flat spring H has one end 85 made to press upon the under side of said breech block, while its opposite end is bent to form a shallow hook and rests upon a screw h, passing through the cheek-pieces of the frame. The bent end of the spring also abuts 90 against the frame and is thereby retained in

position.

To retain the breech-block in a depressed position at full-cock, as shown in Fig. 2, the front edge of the shelf D2 has in its middle 95 portion a lip d^2 , that comes into engagement with the lower notch s of the sear. The same lip comes into engagement with the upper notch s^2 of the sear when it is desired to retain the breech-block nearly closed at half- 100

The sear is pivoted at g^4 to the guard-plate. It is united to the trigger I by means of a connecting-rod J, which has its front end bent

upwardly and pivoted to the sear at j, at a point higher than the pivot g^4 , and, to permit the rod J to rest close to the guard-plate, the front end of said rod is slotted at j^2 for the passage of the pivot-pin g^4

The rear end of the rod J is pivoted to the trigger at i2, at a point higher than or eccentric to the pivot-pin i of said trigger, and to keep the sear slightly inclined toward the 10 breech-block and facilitate its engagement therewith the upper end of the trigger has a lip i^3 , extending forwardly, under which one end of the trigger-spring k is made to press, the opposite end of said spring being secured

15 at k^2 to the guard-plate.

The firing-pin L is angular and is pivoted at l to the lower portion of the front end of the breech-block in cavity made therein for the purpose; but its lower end l^2 is made to 20 project a short distance through the shelf D2, and is retained in that position by a spring m, having one end in engagement in a notch formed in the firing-pin in the rear of its pivot l, while the opposite end is retained in 25 a notch in the underside of the breech-block, and the spring m also keeps the firing end l^3 of the firing-pin retracted within the breechblock until the trigger is pulled and the front end of said breech-block is projected upward to its seat, at which time the lever end l2 of the firing-pin will strike against the under side of the barrel, and its pointed end l3 will thereby be projected forward against the priming in the rear of the cartridge and ex-35 plode it.

The cartridge-shell extractor N is in the form of a bell-crank and pivoted at n to one of the cheek-pieces of the frame on the inside thereof. Its upper arm has a lip n^2 extending 40 laterally to engage with the rim of the cartridge-shell and extract it when the breechblock is suddenly depressed to the lowest end of its course, said location being lower than that in which it is retained at full-cock by 45 the sear, as shown in Fig. 2, the lower arm of the extractor being then pressed upon by a projection d^3 on one side of the breech-block. When said breech-block is retained at full-

cock, the lower arm of the extractor is not pressed upon by the projection d^3 , and its 50 upper arm is permitted to be swung forward. The insertion of the cartridge into the gunbarrel restores the extractor to its normal position in the side of said barrel.

Having now fully described my invention, 55

I claim-

1. The combination of a fire-arm breechframe, a breech-block having its rear end pivoted thereto and provided with a shelf at its front end, with a forked arm pivoted to the 60 breech-frame and having its forked ends adapted to rest upon the shelf of the breechblock, and a lever secured to the pivot of the forked arm and extending rearwardly alongside of the breech-frame, substantially as 65 described.

2. The combination of a fire-arm breechframe, a breech-block having its rear end pivoted thereto and provided with a shelf at its front end, a forked arm pivoted to the front 70 of the breech-frame and adapted to rest upon said shelf, an angular firing-pin pivoted to the breech-block, a sear adapted to engage with the front of the shelf of the breech-block, and a connecting-rod uniting the sear to the 75

trigger, substantially as described.

3. The combination of a fire-arm breechframe, a breech-block having its rear end pivoted thereto and provided with a shelf at its front end, an angular firing-pin pivoted to 80 the breech-block, a spring having one end secured to the under side of the breech-block, a sear adapted to engage with the front of the shelf of the breech-block, and a connectingrod having its front end slotted for the pas- 85 sage of the pivot-pin of the sear, and a trigger provided with a lip on its upper end and a spring pressing under said lip, substantially as described.

In testimony whereof I affix my signature in 90 presence of two witnesses.

JOHN FRICK.

Witnesses:

L. C. HILLS, C. C. SCHILLER, Jr.