

(No Model.)

2 Sheets—Sheet 1.

W. R. FINCH.
BREECH LOADING GUN.

No. 452,699.

Patented May 19, 1891.

Fig 1

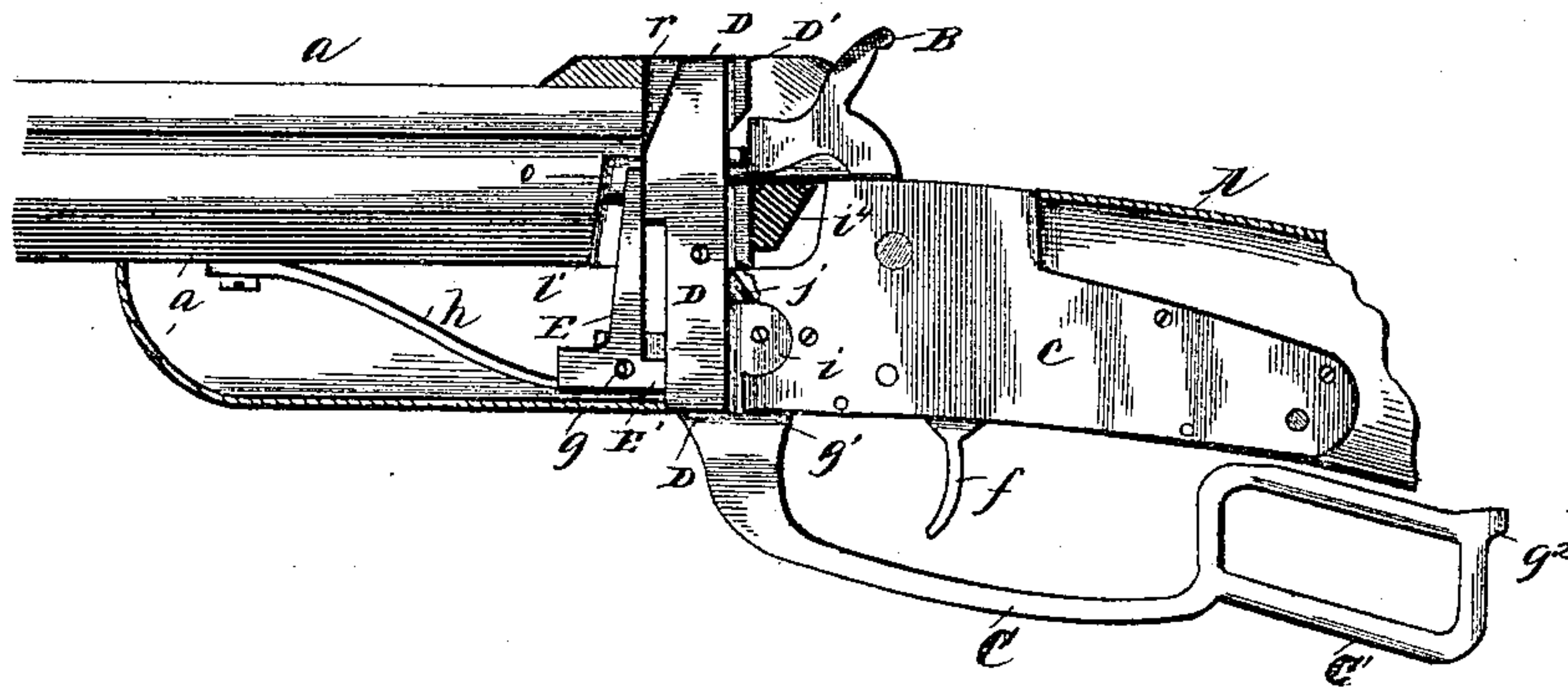
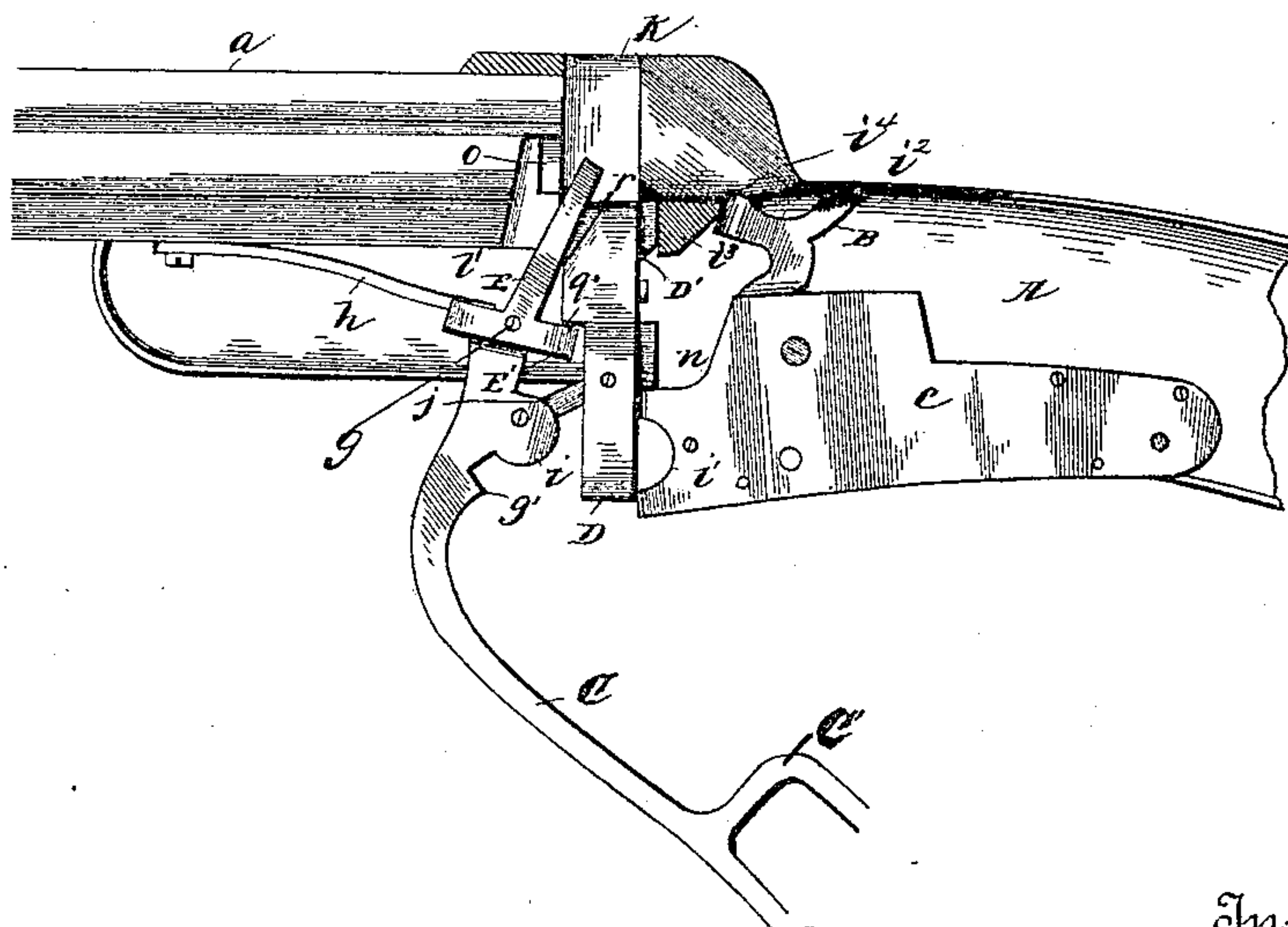


Fig 2



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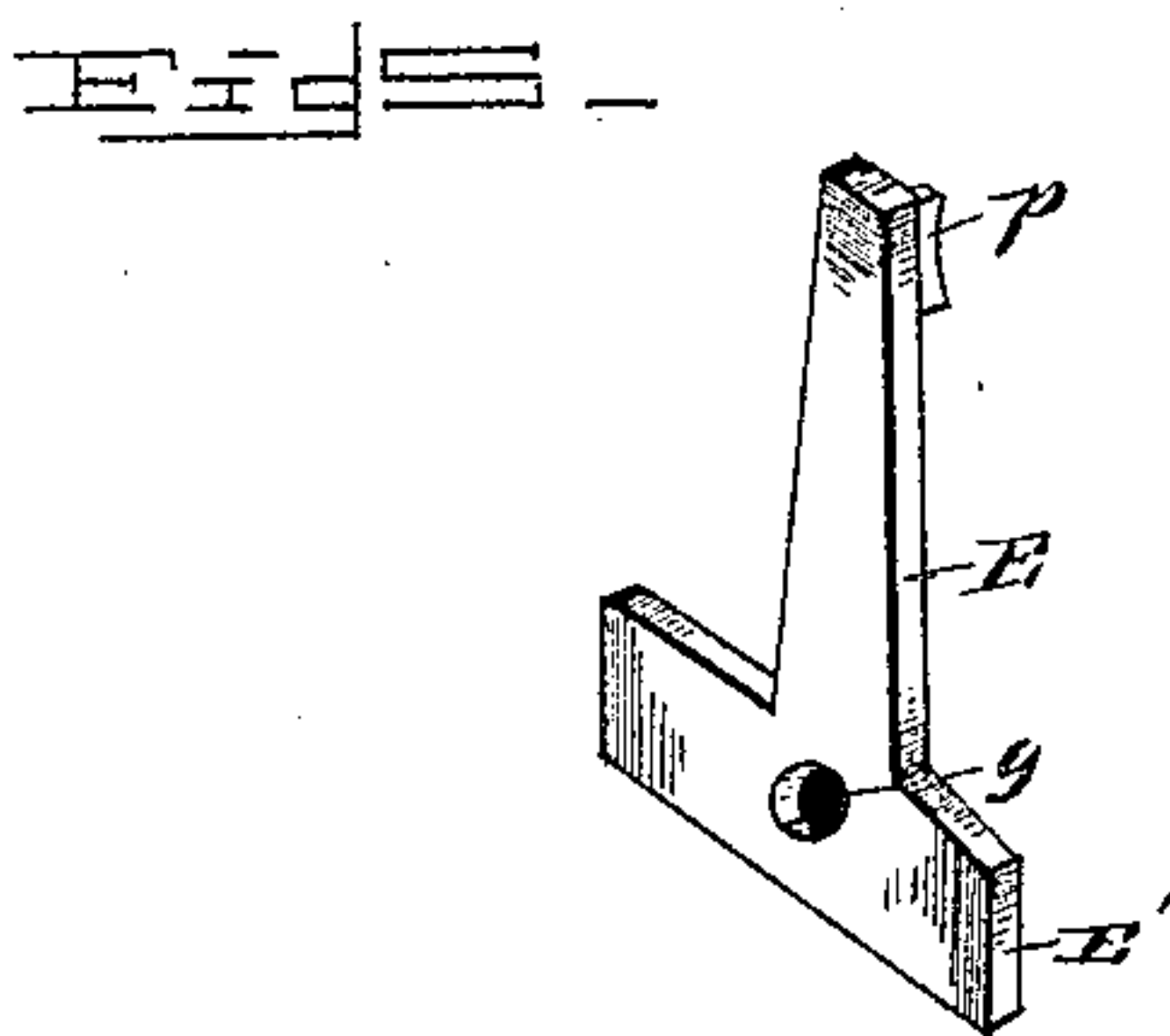
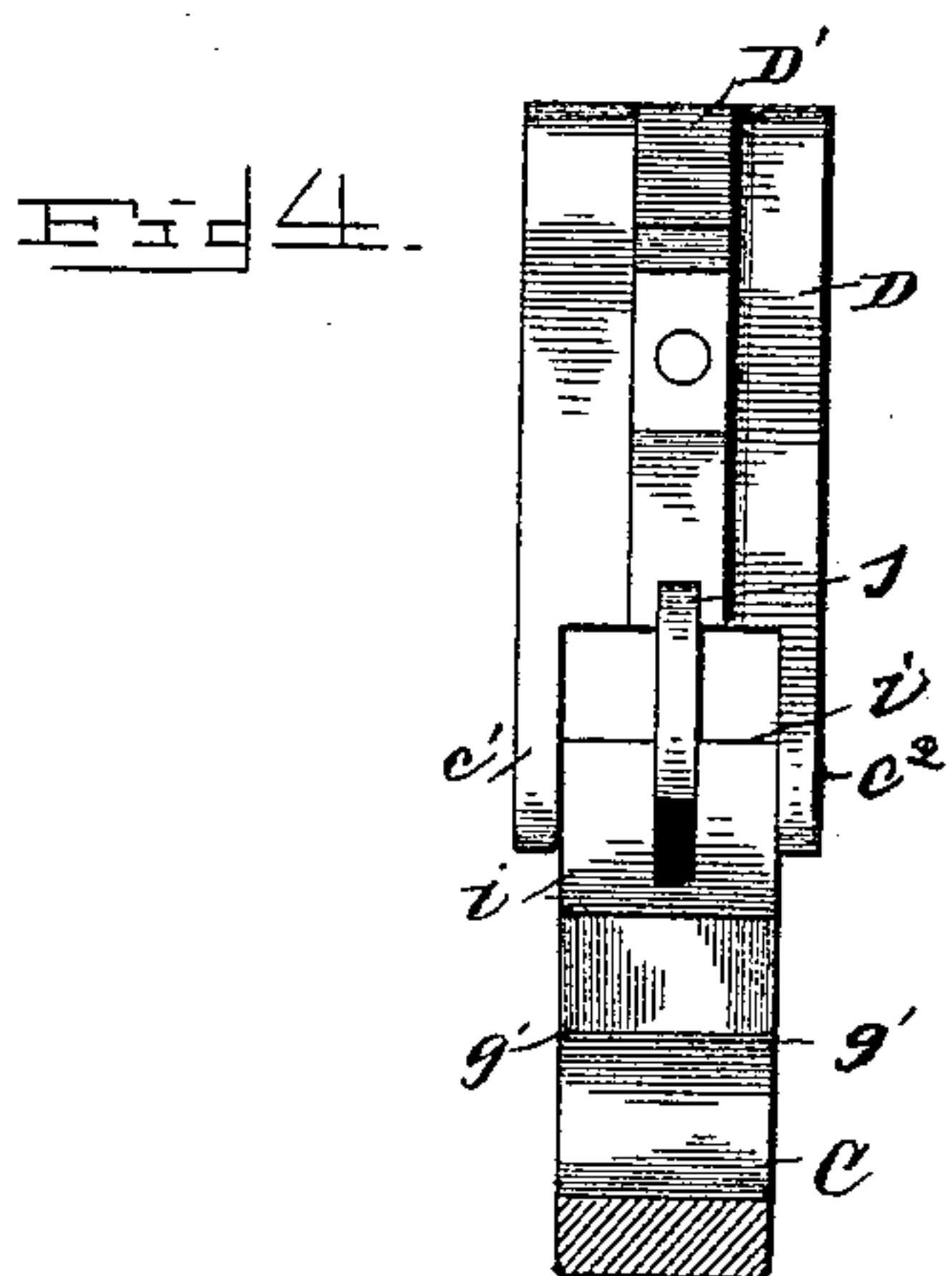
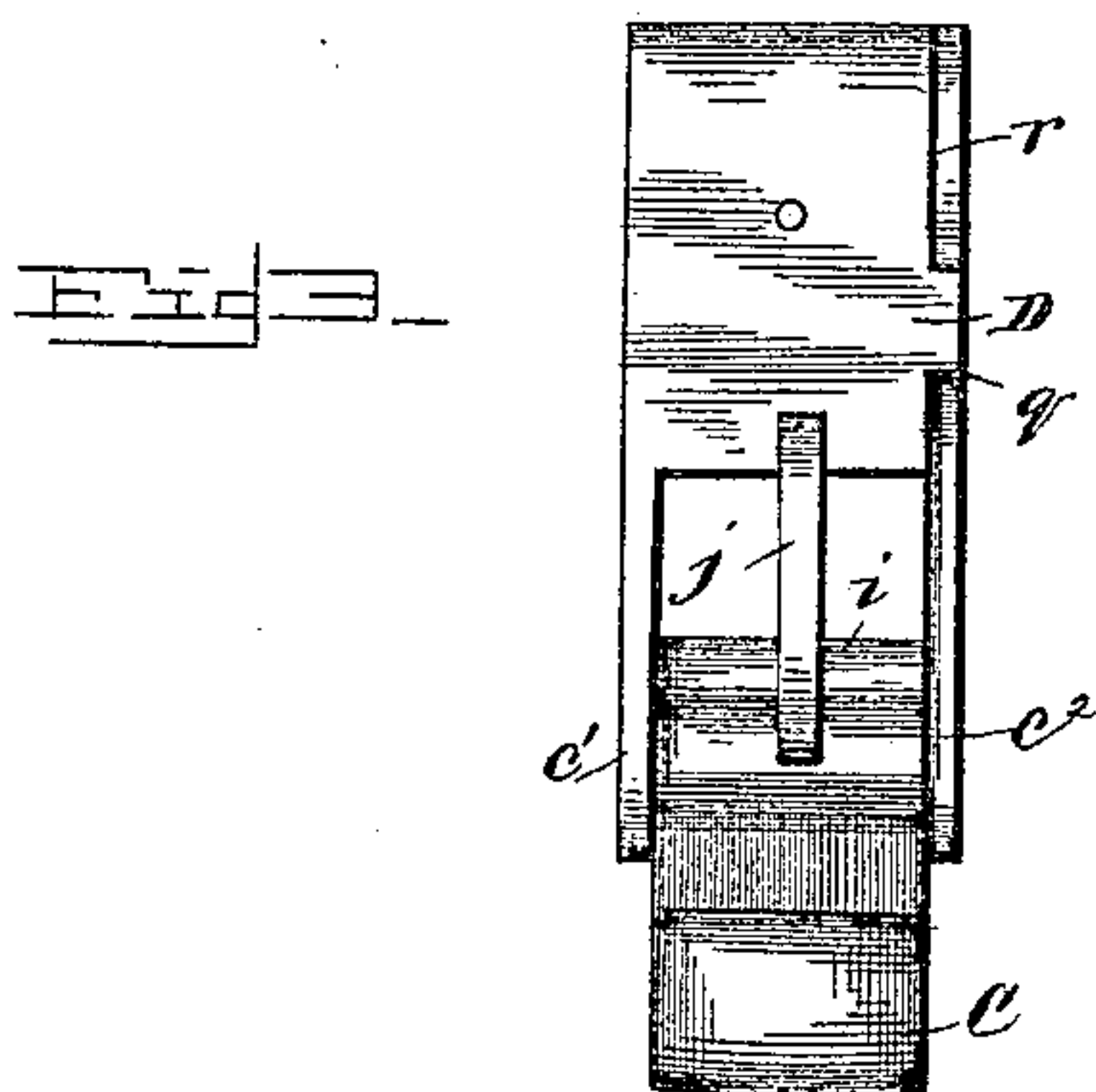
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UNITED STATES PATENT OFFICE.

WILLIAM ROSE FINCH, OF EUREKA, CALIFORNIA.

BREECH-LOADING GUN.

SPECIFICATION forming part of Letters Patent No. 452,699, dated May 19, 1891.

Application filed April 24, 1890. Serial No. 349,332. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM ROSE FINCH, a citizen of the United States of America, residing at Eureka, in the county of Humboldt and State of California, have invented certain new and useful Improvements in Fire-Arms, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention has for its object to provide an improved fire-arm wherein the trigger-guard lever is adapted to effect the cocking of the hammer; and it consists in the detailed construction and combination of the parts, as will appear from the following description and accompanying drawings, in which—

Figure 1 is a side elevation of my improved fire-arm, the inclosing casing being removed. Fig. 2 is a similar view showing the breech open. Fig. 3 is a front elevation of the slide and the trigger-guard. Fig. 4 is an opposite elevation thereof, and Fig. 5 is a detail perspective view of the shell-ejector.

In carrying out my invention I employ, as usual, the breech portion A of a fire-arm, having secured to it the inner end of the barrel a.

f is the trigger, hung in the case c and engaging the spring-pressed end of the usual pawl, its lower end depending from said case for the convenient action of the finger.

C is the trigger-guard lever, pivoted at its extreme forward end, as at g, in the lower forward end of the breech-case A, and having an offset or stop g' inward therefrom, resting against the under side of the lock-case c, a similar offset or stop g² being formed upon its upper extreme rear end, resting or bearing against the underside of said breech-case. The rear end of the lever has a loop C' for its convenient manipulation, while its forward end rests against a powerful spring h, secured to the under side of the barrel a. Also, at the forward end of the lever C, and a short distance rearward from its pivot, is a recessed cam shoulder or lug i, which is connected by a link j to the breech-block or slide D, arranged to slide vertically in an opening k in the breech-case A, between the inner end of the barrel a and the hammer B. The cam shoulder or lug i engages a corresponding recess i' in the lower forward end of the lock-case c to provide for effecting the cocking

action of the hammer, as will more fully be seen further on.

The breech-block or slide, the cam shoulder or lug, and the link are all adapted to stand in alignment when the lever C is resting against the under side of the breech-block or slide, the lower end of the breech-block or slide being bifurcated and having the branches or arms c' c² thus formed, guided or moving one in a groove or recess l in one side wall of the opening k and the other against the rear wall of an extended recess or chamber l' in the opposite side wall of said opening for the cartridge-shell ejector or extractor, the inner surface of said rear wall standing in alignment with the inner surface of the rear wall of the groove or recess l. Thus it will be seen that when the rear end of the lever C is moved outward the link j will move the breech-block or slide also outwardly in its action.

The breech-block or slide is provided with a rearwardly-projecting guide-rib D', engaging a corresponding recess in the upper rear wall of the opening k, and with an inward and downward inclined beveled surface just above the firing-pin, carried by said breech-block or slide to permit it to readily pass the forward edge of the hammer B as the breech-block slide is moved downward.

The upward movement of the forward end of the pivoted lock-case is limited, as the slide D is returned by the forwardly-projecting portions or lugs n at the upper side of the recess i' of said case, having contact with the offset shoulders i² upon the side walls of the lock-case opening, the upper inclined edges of which shoulders form abutments for opposite edges of said lock-case when the latter is in its normal position. These shoulders have a uniting partition i³ between them, the upper edge of which forms the hammer-stop i⁴.

E is the cartridge-shell extractor or ejector, which is hung or pivoted in its chamber or recess l' upon the pivot g of the lever C, and has its upper end let into a recess o, through which its tooth p engages the flange of the cartridge-shell, while its lower end is provided with an arm E', which is engaged by a shoulder q on one side of the breech-block or slide D near its lower end, which actuates the ejector or extractor after the upper end of

said slide has been lowered out of the way to effect the extraction or removal of said shell.

It will be observed that when it is desired to cock the hammer the lever C is moved
5 away from the breech-case, effecting the outward movement of the breech-block or slide D, which in turn, by means of the lugs *n* and the shoulders *i*², effects the lowering of the inner or forward end of the lock-case. Thus
10 the hammer, by its forward or free end remaining in contact with its stop *i*⁴, will be prevented from moving with the lock-case. Consequently the movement of the latter as its free end is depressed by the lever C will
15 effect the cocking of the hammer. Also, when the lever has about reached the end of its maximum onward movement the ejector or extractor E will be moved outward through the action of the shoulder *q* and arm E', as
20 before set forth, and thus extract or eject the cartridge-shell, a cut-away portion, as at *r*, at the upper end of that side of said slide providing for the maximum movement of said extractor.

25 Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a fire-arm, the combination, with the hammer and its pivoted lock-case, of the
30 trigger-guard lever pivoted to the breech-case and provided with a cam-lug a short distance from its pivot, the breech-block or slide having a guide-rib provided just above the firing-pin with an inwardly and down-
35 wardly beveled surface, said cam-lug of said lever engaging a recess in the inner end of said lock-case, substantially as shown and described.

2. In a fire-arm, the combination of the
40 breech-block or slide, its actuating-lever, the

cartridge-shell extractor or ejector connected to the pivot of said lever and adapted to engage the shell in the barrel, said ejector having near one end an arm engaged by a shoulder on said slide or block, the hammer and
45 its pivoted lock-case, the trigger-guard lever pivoted to the breech-case and provided with a cam-lug a short distance from its pivot, said breech-block or slide having a guide-rib just above the firing-pin, having an inwardly
50 and downwardly beveled surface, and said cam-lug engaging a recess in the inner end of said lock-case, substantially as set forth.

3. In a fire-arm, the combination, with the hammer and its pivoted lock and the breech-
55 case, of the trigger-guard lever pivoted to the latter, and the bifurcated or branched breech-block or slide arranged to slide vertically in said case, said lever extending through the bifurcated or branched portion of said slide
60 or block and having a cam-lug engaging a recess in the free end of the lock-case, and said breech-case having a stop for the forward end of said hammer, substantially as shown and
65 described.

4. In a fire-arm, the breech-block or slide having the strip or guides on its rear face, the upper one of which is beveled on its lower face to permit it to readily pass the forward
70 edge of the hammer as the breech-block is moved downward, said block or slide being connected to the pivoted trigger-guard or breech-block bolt by means of a link, substantially as shown and described.

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

WILLIAM ROSE FINCH.

Witnesses:

ENOCH J. ROWE,
W. R. HUNT.