

F. J. FUSS & J. WECK.
Breech-Loading Fire-Arms.

No. 146,445.

Patented Jan. 13, 1874.

Fig. 1.

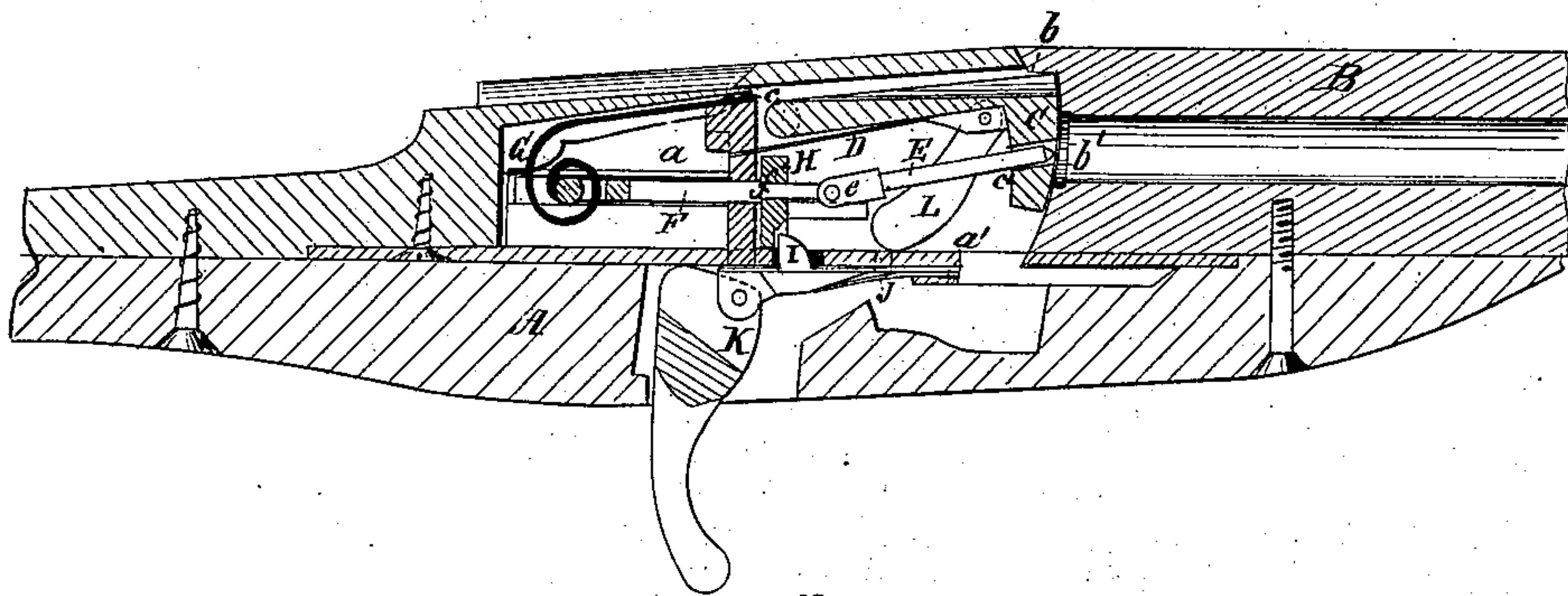


Fig. 2.

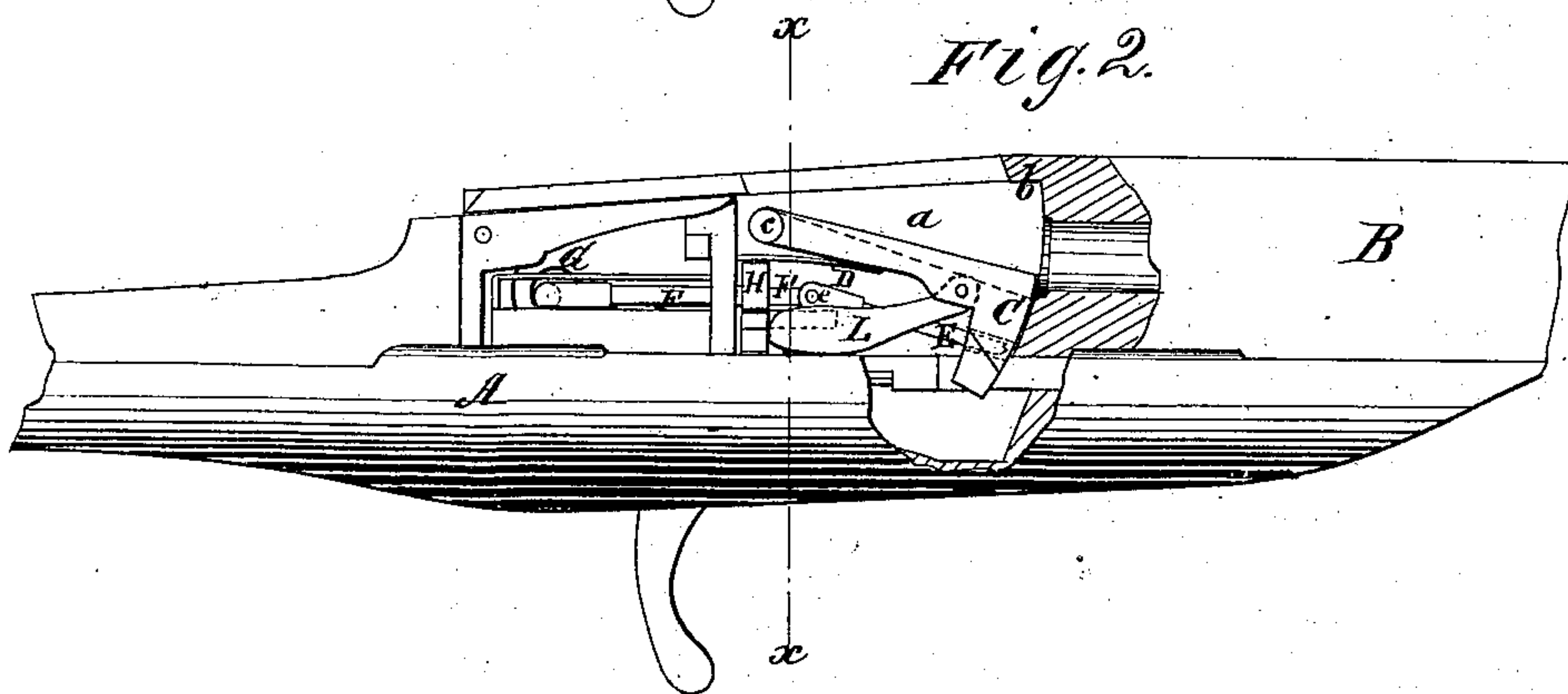
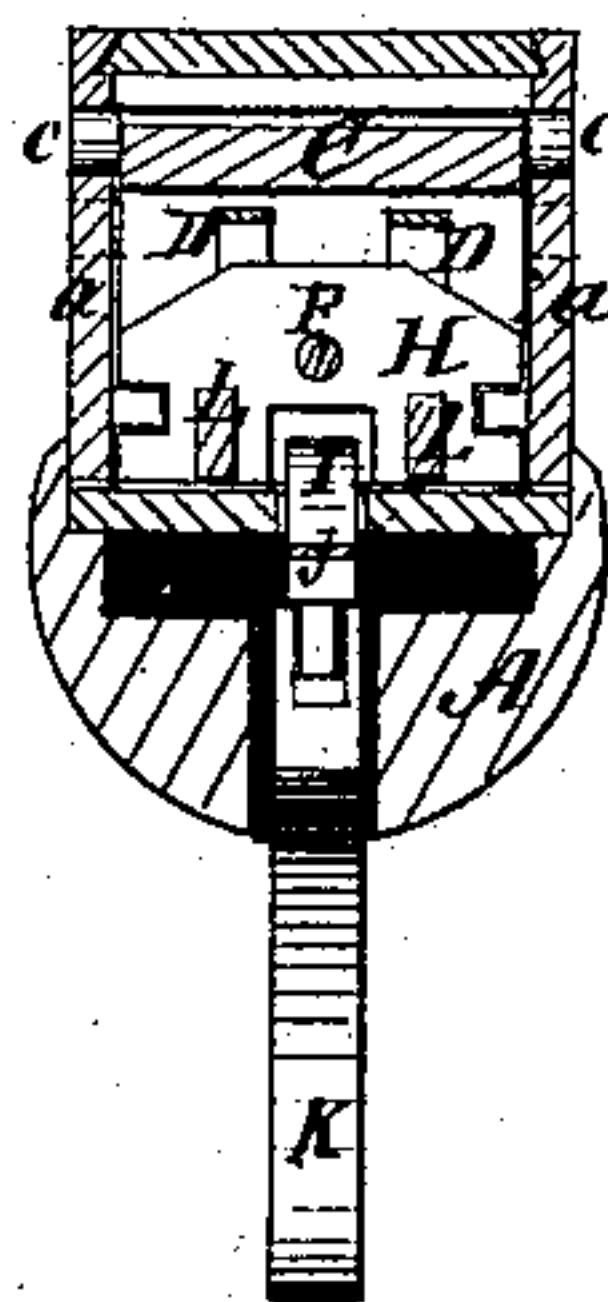


Fig. 3.



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UNITED STATES PATENT OFFICE.

FRANCIS J. FUSS AND JOHN WECK, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. **146,445**, dated January 13, 1874; application filed October 30, 1873.

To all whom it may concern:

Be it known that we, FRANCIS JOHN FUSS, of Baltimore city, State of Maryland, and temporary at Wiesbaden, Germany, and JOHN WECK, of Baltimore, Maryland, have invented a new and Improved Breech-Loading Fire-Arm; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a longitudinal vertical section. Fig. 2 is a side elevation, partly broken out, and one side plate removed. Fig. 3 is a cross-section in line *x x* of Fig. 2.

The invention will first be fully described in connection with all that is necessary to a full understanding thereof, and then clearly pointed out in the claim.

A represents the stock, and B the barrel. C is a breech-block fitting under a projection, *b*, of the barrel, pivoted in the rear, at *c c*, to the side plates *a a*, and supported upon a subjacent plate-spring, D. This breech-block is preferably channeled on top to furnish a convenient concavity for the thumb, which is used to press and hold it down against the spring D while the new cartridge is being inserted into the chamber *b'*. In the breech-block is a slot or perforation, *c'*, through which works the needle E, that is pivoted at *e* to a sliding rod, F, having the shoulder *f*. The needle and rod are held forward by a rear spring, G, while they are drawn back by a slide, H, which is locked by a catch, I, held up in front thereof by a spring, J, and withdrawn downwardly by the trigger K. The slide H, working against the shoulder *f*, is thus made

to carry the rod F, which, in its turn, takes it back to its former position. In order to furnish a simple, convenient, and inexpensive means of operating the slide H by the same movement of the thumb or hand, I use the two pieces L L, pivoted at the upper end to the breech-block, and having the lower ends free and preferably curved to allow them to slide with as little friction as possible. These are inclined rearwardly, and rest upon the bottom of chamber *a'* on the inside of stock. By means of these pieces L L the slide H is moved back at the same time that the breech-block is pressed down for the removal of the spent and the insertion of a new cartridge, while the same thumb-power is enabled to remove breech-block and needle from the front of cartridge-chamber, and cock the fire-arm.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination of the firing-pin E F, made in two parts, and hinged together, with the swinging breech-block G, having arms L L pivoted thereto near its front end, the loose ends of said arms L L working against the collar H on the firing-pin during the depression of the breech-block, and thereby cocking the piece in the act of opening the breech, substantially as described.

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