J. STEVENS.

Rifle-Barrel for Breech-Loading Shot-Guns.

No. 211,642. Patented Jan. 28, 1879.

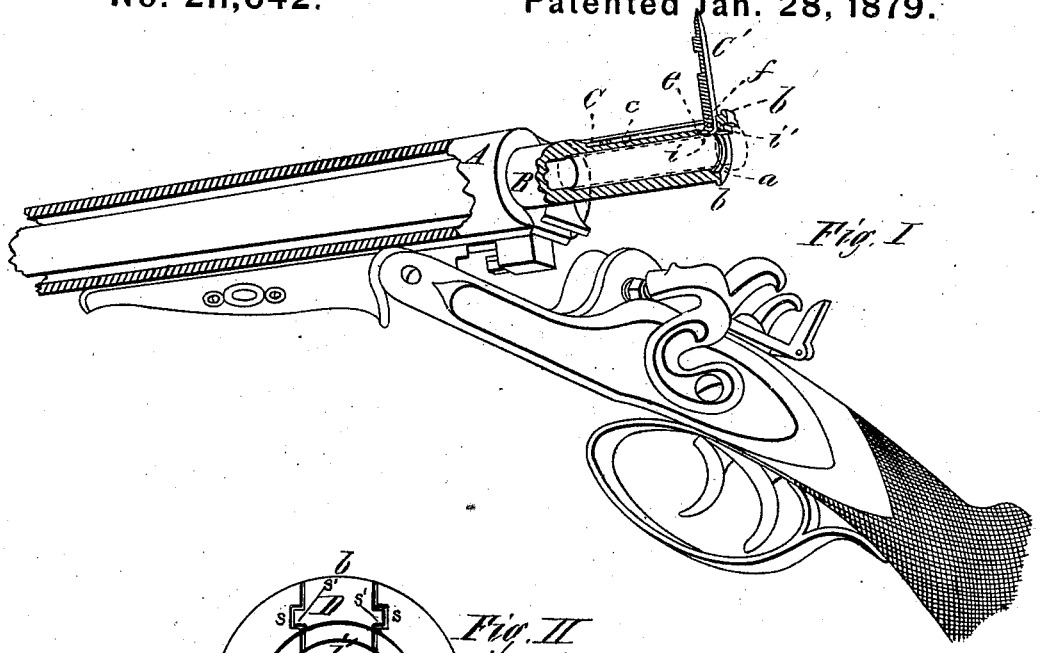


Fig. I

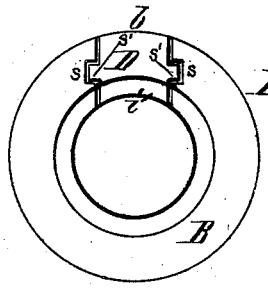


Fig. II

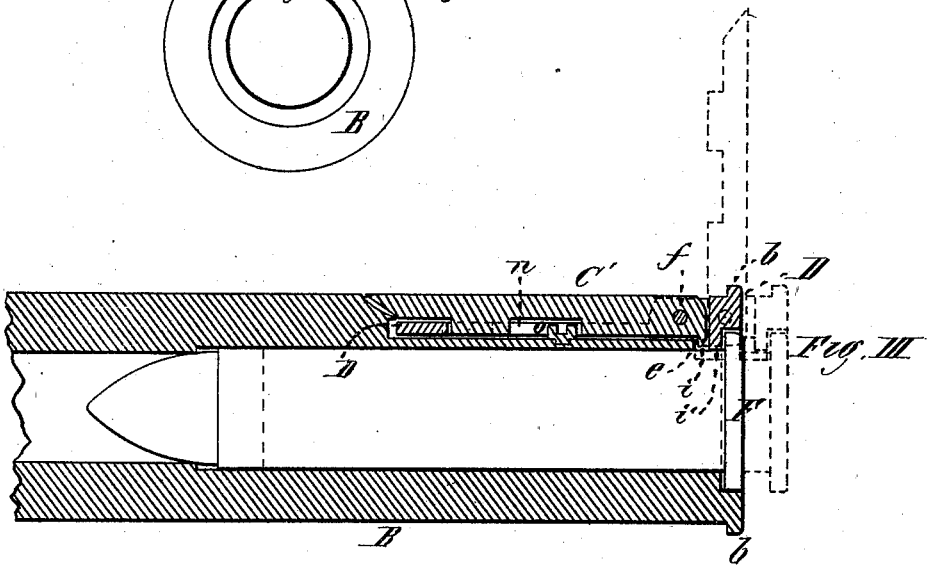
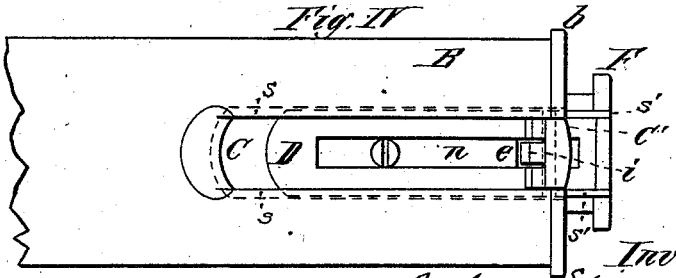


Fig. III

Fig. IV



Witnesses.
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UNITED STATES PATENT OFFICE.

JOSHUA STEVENS, OF CHICOPEE FALLS, MASSACHUSETTS.

IMPROVEMENT IN RIFLE-BARRELS FOR BREECH-LOADING SHOT-GUNS.

Specification forming part of Letters Patent No. **211,642**, dated January 28, 1879; application filed September 6, 1878.

To all whom it may concern:

Be it known that I, JOSHUA STEVENS, of Chicopee Falls, in the State of Massachusetts, have invented a new and useful Improvement in Rifle-Barrels for Breech-Loading Shot-Guns; and that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, and to the letters of reference marked thereon.

My invention relates to an independent rifled barrel, to be inserted into the barrel of a shot-gun, at the breech, and the gun then used as a rifle, the object of my invention being to extract the shells easily from the rifle-barrel after the cartridges are exploded; and my invention consists of a cam-lever hinged to a slide, by which, when one end of the lever is moved outward and away from the barrel, its cam impinges against a shoulder on the barrel, and forces the slide rearward, all which will be more fully hereinafter described.

Figure I is a perspective view, showing an ordinary shot-gun with a rifle-barrel inserted having my invention applied thereto. Fig. II is a rear end view of the rifle-barrel with my invention applied. Fig. III is a central longitudinal section of the same; and Fig. IV is a plan view of the same, showing the cam-lever pulled outward on its hinge and the slide moved out.

In the drawings, B represents a rifle-barrel having my invention applied and partially inserted in a shot-gun barrel, A. C is a recess made longitudinally in the outer portion of the barrel, at its rear end, with grooves or ways *s* made in each side of the recess C. D is a slide, provided with flanges *s'*, to fit properly and move in the grooves *s*.

The barrel B has the ordinary annular recess made at its rear end to receive the flange F of the cartridge-shell, and is also provided with the exterior flange, *b*, by which it is drawn from the rear end of the shot-gun barrel by the ordinary extractor; and the rear end of the slide D has the same general form as the rear end of the barrel, so far as it extends around the same, being provided with its portion of exterior flange, *b*, and recess to receive the head of the cartridge-shell.

The slide is provided with a longitudinal slot, *n*, and a shoulder at *e*, and a stop, *o*, is screwed into or attached to the barrel, projecting outward into the slot *n*, to prevent the slide from being moved rearward too far.

C' is a lever, pivoted to the rear end of the slide at *f*, and is provided at its rear end with a short projection, *i*, or cam, extending inward, as shown in Fig. III; and a shoulder, *e*, is made in the barrel, just forward of the projection or cam *i*, as shown also in Fig. III.

The operation of my invention is as follows: The barrel B is inserted into the rear end of a barrel of an ordinary breech-loading shot-gun, the flange *b* entering the recess made for the flange of the cartridges, and the cartridge containing the ball is inserted, and the gun then used in the ordinary way.

After the discharge the barrel of the gun is tilted down and the extractor starts the rifle-barrel out of the shot-gun barrel a little, sufficiently far to draw out the slide D, by its flange *b*, and start back the shell, which is then removed from the barrel B with the thumb and finger. If this cannot be done, however, and the shell should stick fast in the barrel, the latter is drawn out from the gun-barrel sufficiently to lift out the free end of the lever C, and move it outward on its hinge *f* into the position shown in Fig. I and in dotted lines in Fig. III. In this movement the end of the cam or projection *i* is forced into contact with the shoulder *e* of the barrel, and the slide D is thereby forced rearward, and, moving against the head or flange F of the shell, carries that rearward also sufficiently far to be seized with the thumb and finger and drawn out. The lever C' is then forced down into place in the recess C, the slide moved forward into place, the shell removed, the barrel pushed in, and another cartridge inserted.

It is, of course, evident that, instead of the two grooves *s*, one on each side the recess C, and the corresponding ways *s'*, the slide itself

may have a dovetail form in its cross-section, and fit and move in a correspondingly-shaped groove, without departing from the invention in the least.

Having thus described my invention, what I claim as new is—

The combination, with the barrel B, of the slide D and the cam-lever C′, substantially as described, for starting the shell from the barrel.

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Witnesses:
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