

No. 670,985.

Patented Apr. 2, 1901.

G. ELLSTROM.  
EJECTOR FOR DROP DOWN GUNS.

(Application filed Jan. 14, 1901.)

(No Model.)

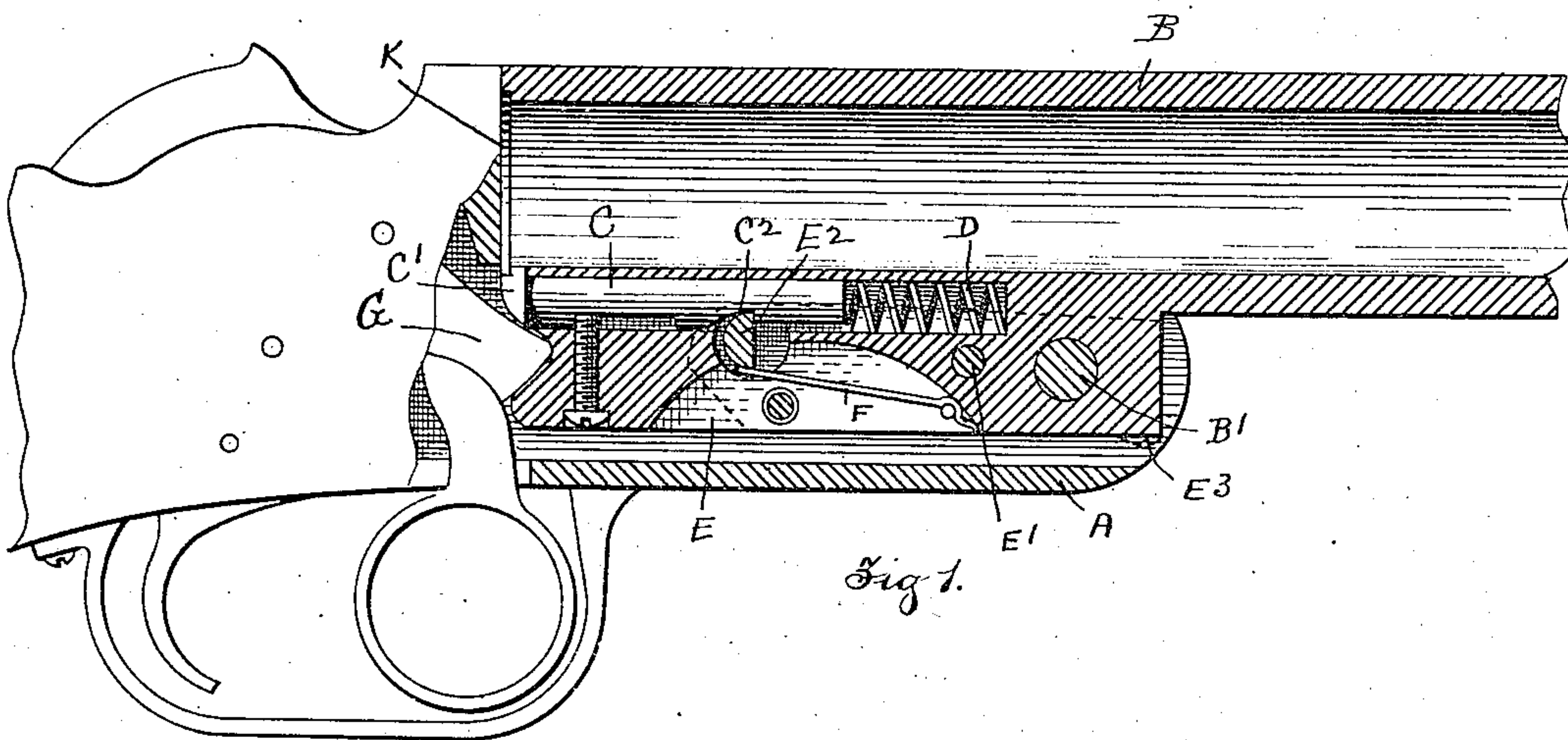


Fig. 1.

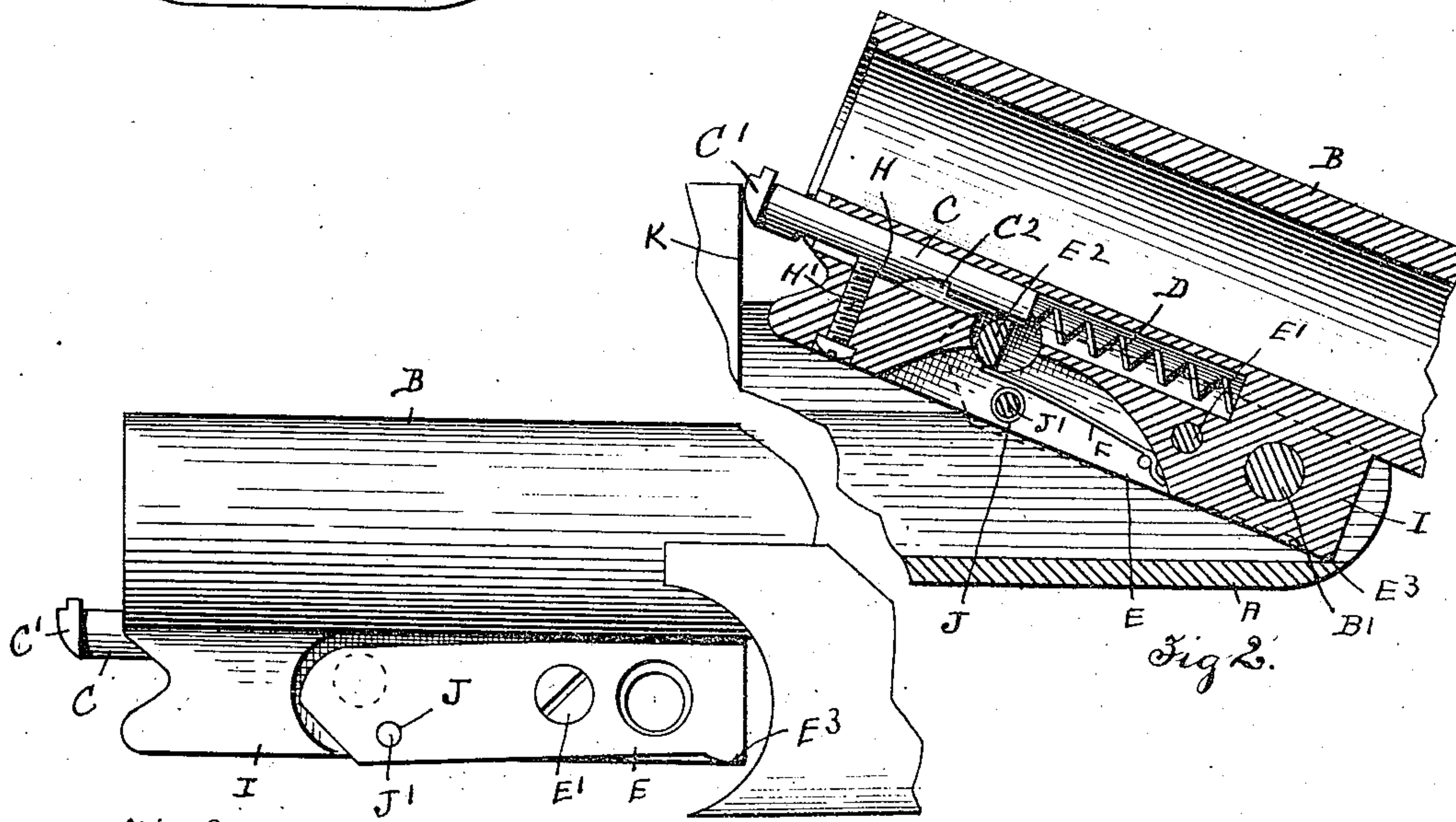


Fig. 2.

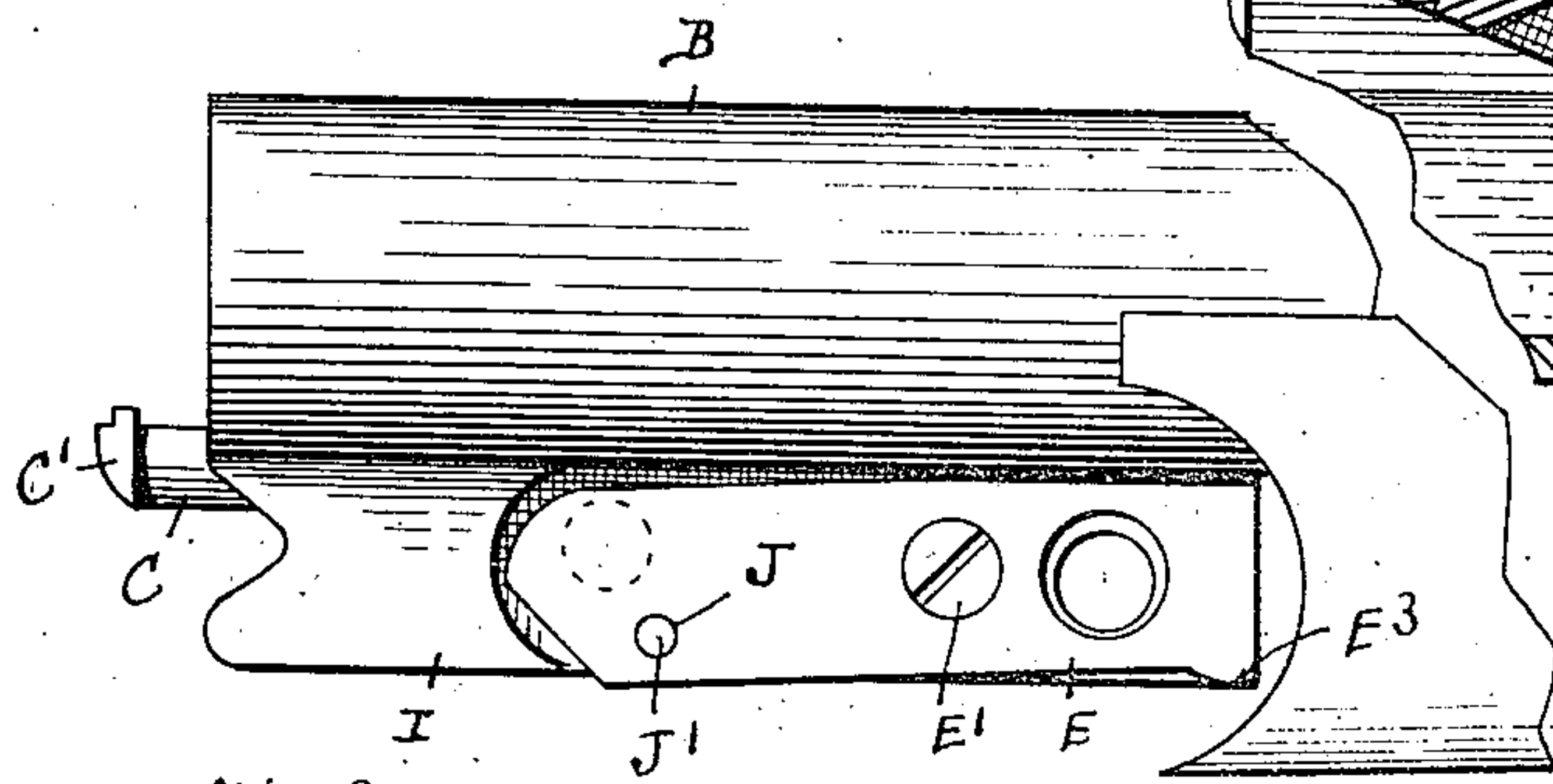


Fig. 3.

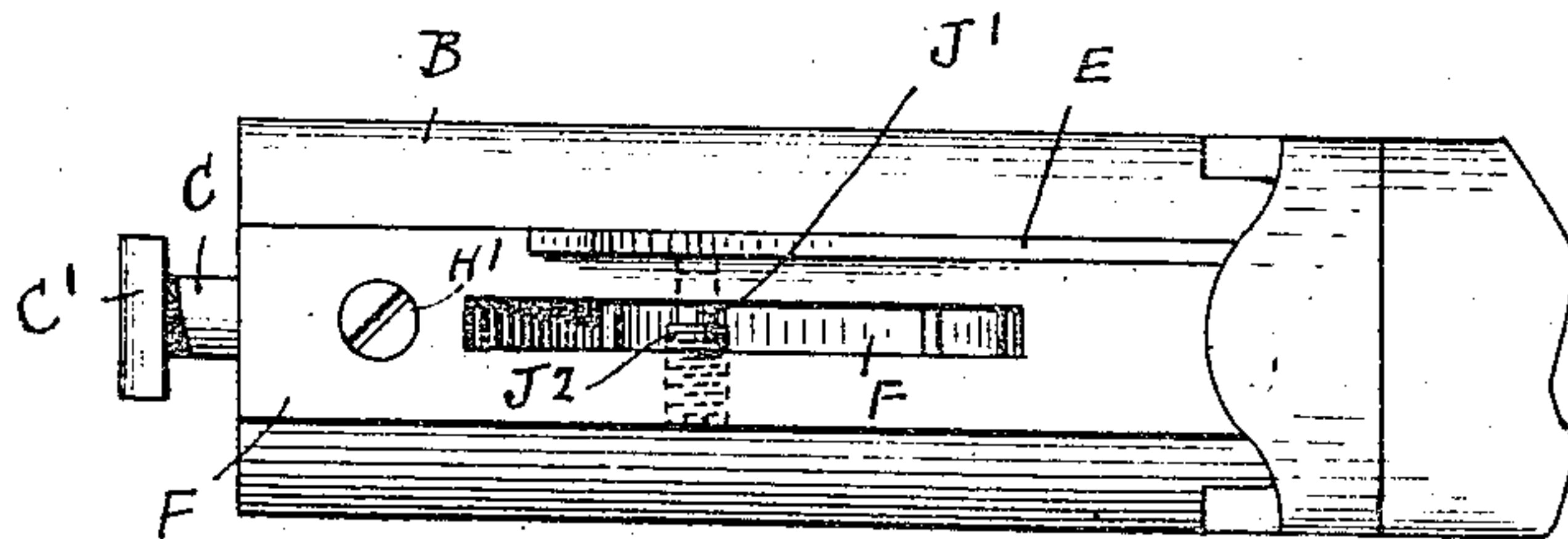


Fig. 4.

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# UNITED STATES PATENT OFFICE.

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## EJECTOR FOR DROP-DOWN GUNS.

SPECIFICATION forming part of Letters Patent No. 670,985, dated April 2, 1901.

Application filed January 14, 1901. Serial No. 43,133. (No model.)

*To all whom it may concern:*

Be it known that I, GUSTAF ELLSTROM, a citizen of the United States, residing at Fitchburg, in the county of Worcester and Commonwealth of Massachusetts, have invented a new and useful Improvement in Firearms, of which the following is a specification, accompanied by drawings forming a part of the same, in which—

10 Figure 1 represents a vertical central sectional view of a portion of a firearm embodying my invention. Fig. 2 is a similar sectional view with the barrel rocked on the frame in position to eject the cartridge. Fig. 15 3 is a side view of a portion of the barrel and cartridge-ejector, and Fig. 4 is a bottom view of the same.

Similar reference-letters refer to similar parts in the different views.

20 My present invention relates to the mechanism employed in a breakdown gun for the purpose of ejecting the cartridge-shell from the barrel and comprising a sliding cartridge-ejector and a latch engaging the same; and 25 it has for its object to provide means for restraining the movement of the latch in order to cause the cartridge-ejector to partially withdraw the empty shell from the barrel without removing it.

30 Referring to the drawings, A denotes a portion of the frame of a breakdown gun. B is the barrel, and C the sliding cartridge-ejector, which is actuated by a spiral spring D and is provided with a head C', adapted to 35 engage the flange of the cartridge-shell, these parts being constructed and operating in the usual and well-known manner. The sliding cartridge-ejector is provided with a notch C<sup>2</sup> to receive a latch and hold it in the position 40 shown in Fig. 1, said latch consisting of a plate E, pivoted at E' and provided with a stud E<sup>2</sup>, which is carried into engagement with the notch C<sup>2</sup> by means of a blade-spring F.

45 The barrel B is pivoted to the frame of the gun, and is held in firing position by a latch G in the usual manner. When the latch G is released and the barrel B rocked on the pin B', the corner E<sup>3</sup> of the latch-plate E is carried against the frame A, causing the latch 50 to be rocked on its pivot E', thereby disengaging the stud E<sup>2</sup> from the notch C<sup>2</sup> and releasing the sliding cartridge-ejector C, which

is forced outward by the tension of the spring D, imparting a sudden movement to the cartridge-shell, which is thrown by its momentum entirely clear of the barrel, the movement of the cartridge-extractor C being limited by a shoulder H coming in contact with a fixed screw B'.

The cartridge-extractor C, spring D, and 60 pivoted latch-plate E are supported by a rib I on the under side of the barrel, and the pivoted plate E is provided with a hole J to receive the tip J' of a screw J<sup>2</sup>, held in a screw-threaded hole in the rib I. When the tip J' 65 of the screw J<sup>2</sup> enters the hole J, the plate E is held from rocking on its pivot E' and the stud E<sup>2</sup> held out of engagement with the notch C<sup>2</sup>, so that when the barrel B is rocked the sliding cartridge-extractor C instead of 70 being held by the stud E<sup>2</sup> and suddenly released by the rocking of the latch E is moved gradually outward by the tension of the spring D until it is stopped by the contact of the shoulder H against the screw H', thereby 75 causing the cartridge-shell to be partially withdrawn. The outward movement of the sliding cartridge-extractor C as the barrel B is rocked in the act of breaking down the gun is restrained by the contact of the head 80 C' with the vertical wall K in the frame, causing the cartridge-extractor to move outwardly simultaneously with the rocking of the barrel. If it is desired to again eject the cartridge with a sudden movement sufficient 85 to impart a momentum to the cartridge-shell to carry it out of the barrel, the tip J' of the screw J<sup>2</sup> is withdrawn from the hole J, allowing the plate E to rock freely on its pivot E' and carry the stud E<sup>2</sup> into the notch C<sup>2</sup> and 90 hold the extractor C until the barrel B is raised into the position shown in Fig. 2, when the contact of the corner E<sup>3</sup> with the frame A will release the extractor.

What I claim as my invention, and desire 95 to secure by Letters Patent, is—

1. The combination with a spring-actuated cartridge-extractor of a pivoted latch arranged to engage said extractor to hold it against the tension of the spring, and means 100 for holding said latch out of engagement with said extractor, substantially as described.

2. The combination with a spring-actuated cartridge-extractor provided with a notch for

a latch, of a pivoted spring-actuated plate, a stud carried by said plate and adapted to engage said notch, a screw entering a hole in said plate, by which it is held from movement, substantially as described.

3. The combination with a gun-barrel of a sliding cartridge-extractor, a spring for actuating the same, a latch-plate for holding the extractor against the tension of its spring,

and a spring acting in said plate to hold it in engagement with said extractor, and means for locking said latch-plate and holding it out of action, substantially as described.

Dated this 11th day of January, 1901.

GUSTAF ELLSTROM.

Witnesses:

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CHAS. E. WARE.