

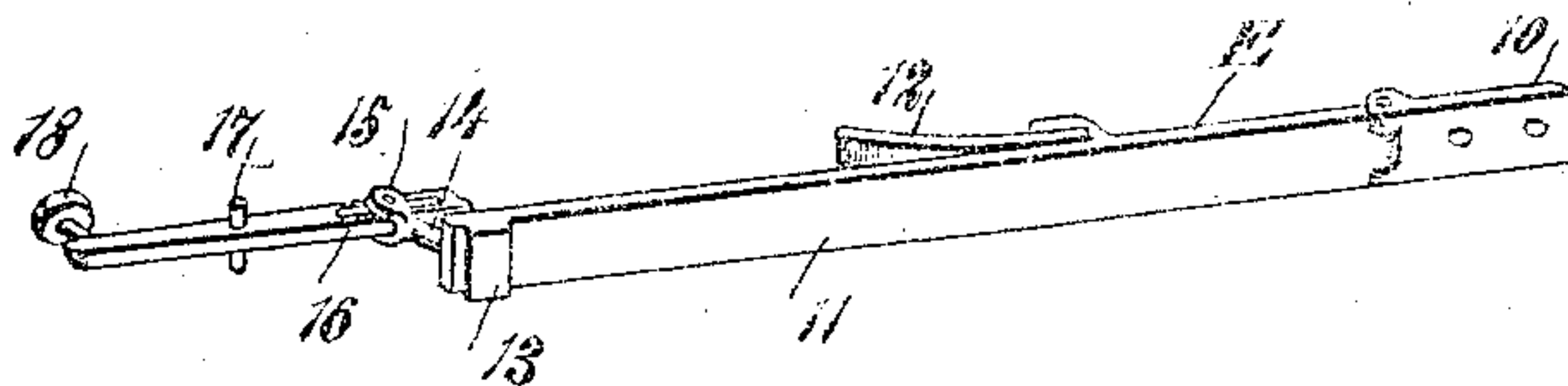
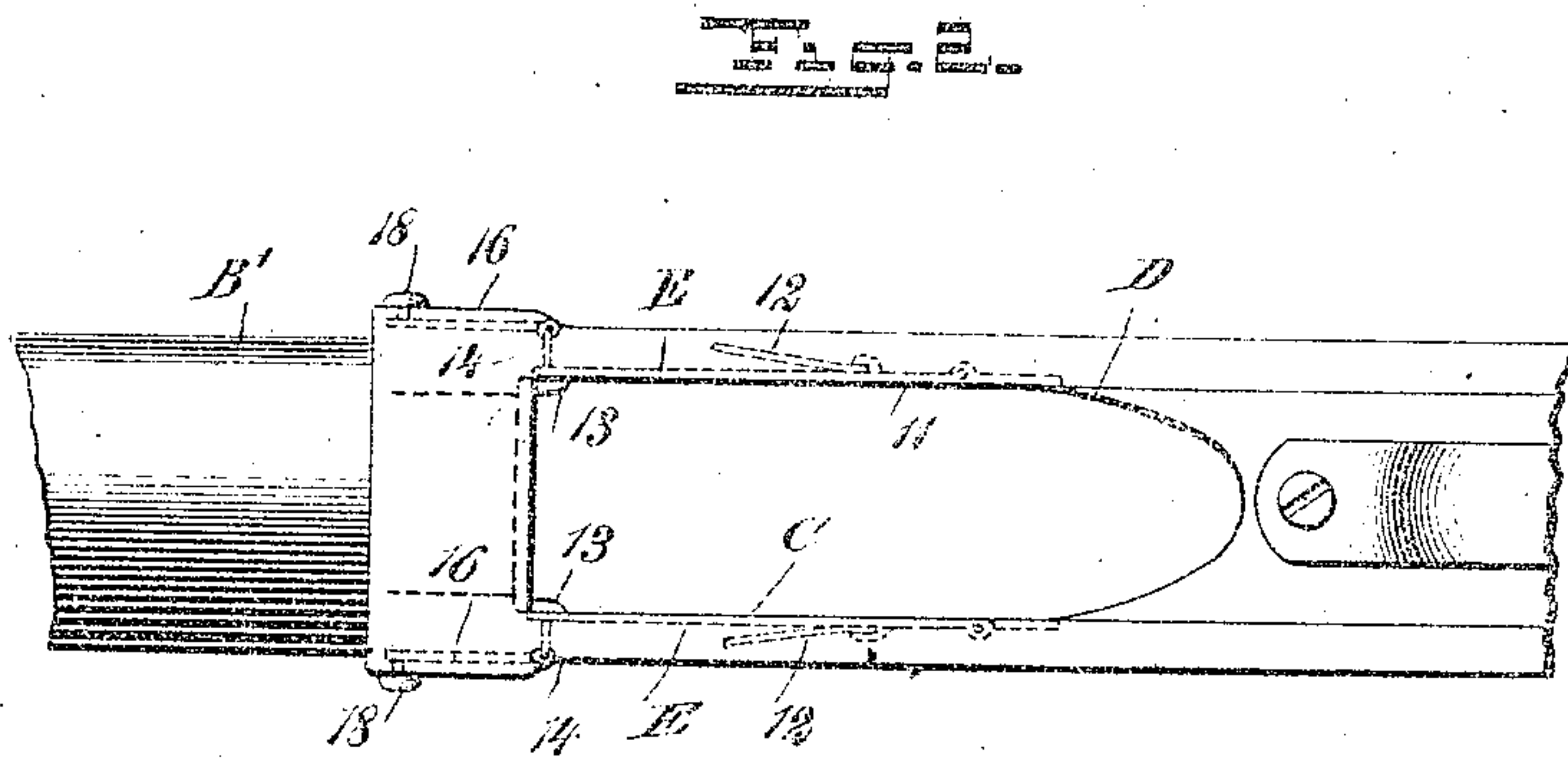
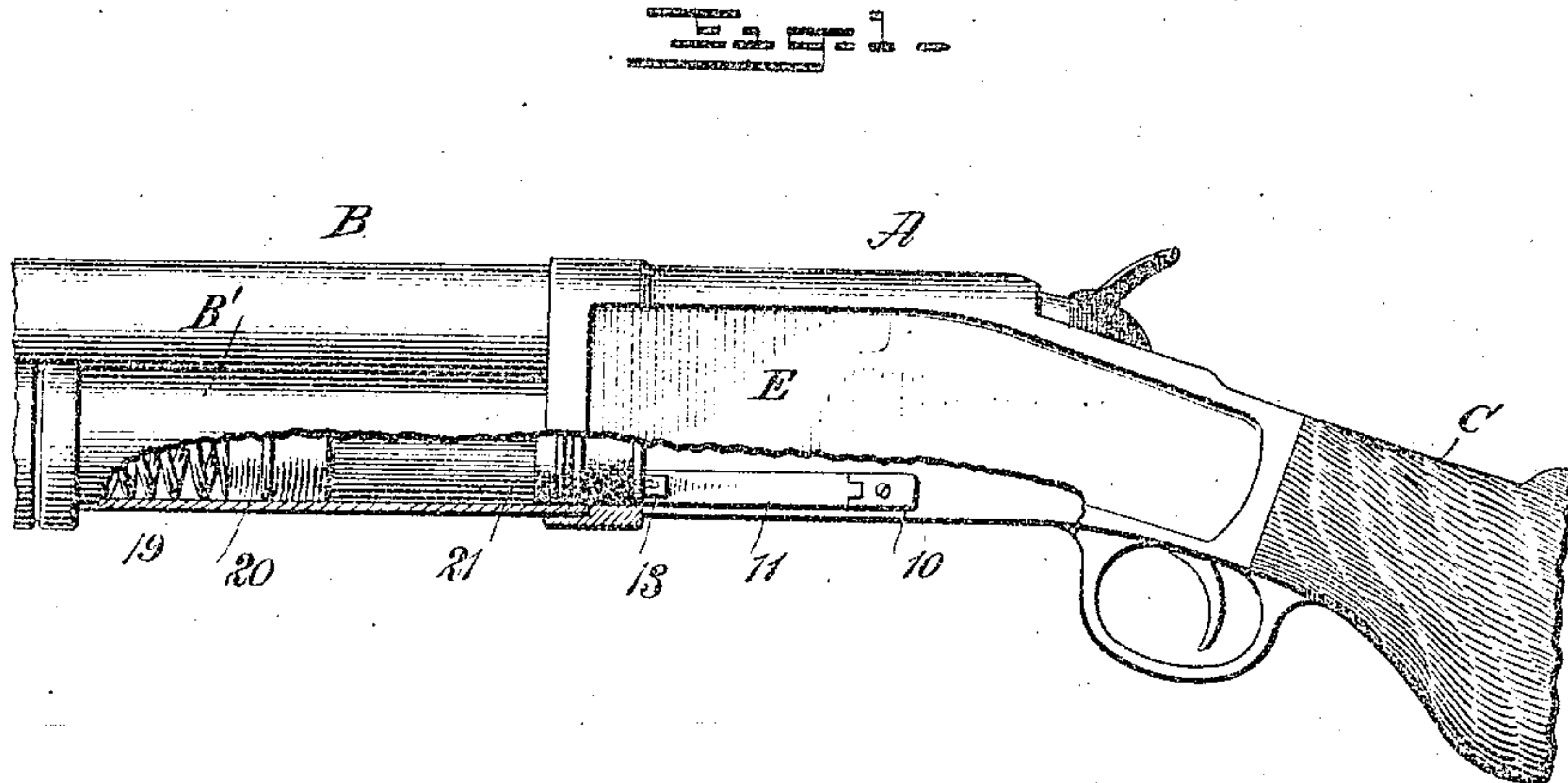
No. 703,266.

Patented June 24, 1902.

W. W. HUMPHREYS.
REPEATING FIREARM.

(Application filed Sept. 3, 1901.)

(No Model.)



WITNESSES:

Geo. W. Maylor
[Signature]

INVENTOR

William W. Humphreys.

BY

[Signature]

ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM W. HUMPHREYS, OF SHEFFIELD, ILLINOIS.

REPEATING FIREARM.

SPECIFICATION forming part of Letters Patent No. 703,266, dated June 24, 1902.

Application filed September 3, 1901. Serial No. 74,092. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. HUMPHREYS, a citizen of the United States, and a resident of Sheffield, in the county of Bureau and State of Illinois, have invented a new and Improved Repeating Firearm, of which the following is a full, clear, and exact description.

My invention relates more particularly to repeating shotguns than to rifles of that type in which the receiver is open at the bottom—as, for example, the model of 1897 of the Winchester shotgun or the Spencer shotgun, in which to load the magazine the gun is turned when closed so that the under surface of the carrier-block can be seen and the cartridge is laid upon this and pushed into the magazine.

The purpose of this invention is to provide a construction whereby one or all of the cartridges, at the option of the shooter, can be expelled from the magazine by the magazine-spring, so that at the end of a hunt the sportsman can unload his gun with ease, rapidity, and perfect safety, avoiding danger of accidental explosion.

A further purpose of the invention is to allow the magazine of the gun to be emptied without manipulating the action of the same, enabling the sportsman to change his load as often as necessary to meet the requirements of the game at hand.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the frame of the gun and a portion of the barrel, magazine, and stock, parts of the magazine and frame showing in section. Fig. 2 is a bottom plan view of the frame and a portion of the magazine, showing the open receiver at the bottom of the frame; and Fig. 3 is a detail perspective view of one of the cartridge-stops and the device for manipulating the same.

A represents the frame of the gun, B the barrel, B' the magazine, and C the stock, the

frame having an opening D in its bottom adapted for introducing the cartridges into the magazine and as an outlet for the cartridges released by the improved device and adapted to be discharged through said opening, which opening D is usually known as a "receiver."

The improved device consists of two sections E, each including a cartridge-stop and an operating device therefor. A cartridge-stop section of the device consists of an inner end member 10, adapted for attachment to the inner face of the frame, and a forwardly-extending body member 11 hinged to the inner or fixed end member 10. Each body member 11 carries a spring 12 at its outer side face, and a lug 13 at the forward end portion of its inner face, as is also shown in Fig. 3. The operating-section of each device consists of a post 14, secured to the outer face of the body-member 11 of the device at the lug 13. The outer end of each post 14 terminates in a fork or bifurcation 15, and in said forked portion of each post the main end portion of a lever 16 is received, pins being passed through the members of the forks carried by the posts 14 and through longitudinal slots in the levers 16, as shown in Fig. 3. Each lever 16 is provided with a pivot-pin 17 between its ends, and a knob 18 is connected with each lever 16 at the outer face of its forward end portion, as is also shown in Fig. 3. Each cartridge-stop is made to enter or fit in a longitudinal channel in the inner face of the side portion of the frame A, occupying positions immediately opposite each other, as is shown in Fig. 2, the members 10 being screwed or otherwise secured to the frame. When the cartridge-stops are properly placed in the frame, the lugs 13 of the said stops in the normal position of the latter will extend into the frame a sufficient distance to engage with the rim of the innermost cartridge 21 in the magazine B' and prevent such cartridge from being forced into the frame by the controlling-spring 19 of the magazine and its connected plunger-head 20. The lugs 13 serve to hold the cartridge in position to enter the barrel B. The springs 12 serve to hold the body portions 11 of the cartridge-stops in their normal positions.

The body member of each cartridge-stop is fitted in a suitable recess or channel produced

in the frame where the frame, barrel, and magazine connect, and the levers 16 are pivoted in position by the pins 17, the knob 18 extending normally outward slightly beyond the outer side faces of the frame, as is shown in Fig. 2. The body portion of each cartridge-stop has outward movement, so that by pressing inward upon the buttons or knobs 18 the lugs 13 are carried within the channels accommodating the body portions of the cartridge-stops, permitting the innermost cartridge to pass into the frame, forced into the same by the magazine-spring 19, whereupon the cartridge thus forced out from the magazine will drop out from the frame through the opening or receiving-section C of the frame. In this manner one cartridge after the other may be discharged from the magazine without operating the action of the gun, or any desired number of cartridges may be so discharged with perfect safety and with rapidity and the magazine be again loaded as quickly as the shells were discharged therefrom. The moment that the buttons or knobs 18 are relieved from inward pressure the springs 12 of the body members of the cartridge-stops act to force the body portions of said stops inward, bringing the lugs 13 again in position to engage with the rim of the innermost cartridge.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In repeating firearms, a frame, a magazine connected therewith, the frame having a coverless cartridge-outlet in communication with the magazine, a cartridge-controlling spring in the magazine tending toward the cartridge-outlet in the frame, spring-controlled cartridge-stops mounted in the side portions of the frame, each stop comprising an inner end member adapted for attachment to the frame, and a body member having a pivotal connection with the end member, and a lug carried by each body member, adapted to engage with and to be disengaged from a cartridge, and means, substantially as described, for manipulating the cartridge-stops from the exterior of the frame, as set forth.

2. In repeating firearms provided with an outlet in communication with the magazine, the cartridges in the magazine being spring-controlled, cartridge-stops consisting of bars

having hinged connection with the inner faces of the frame at their rear portions and provided with springs, normally forcing their forward or free ends inward within the frame, the free ends of the said cartridge-stops being capable of outward movement, levers fulcrumed within the frame, operating from the outside of the frame, and connection between the said levers and the free ends of the cartridge-stops, whereby the lugs on the cartridge-stops may be drawn outward within the plane of the inner side faces of the frame, permitting cartridges from the magazine to enter the frame and escape through the opening thereof.

3. In repeating firearms, the combination, with the frame, stock, barrel and magazine, and a spring-controlled plunger located in the magazine, the frame having outlet-openings in communication with the said magazine, of cartridge-stops comprising an attaching member and a body member hinged thereto, the cartridge-stops being located in longitudinal channels formed in the inner faces of the frame, a lug extending from the inner face of the body of each cartridge-stop at its forward end, which lugs are adapted to normally engage with the rim of the innermost cartridge in the magazine, springs attached to the body portions of the cartridge-stops, holding them in their normal positions, levers fulcrumed upon the frame, each lever having a member which extends beyond the outer face of the frame and a member which connects with a forward end of the body portion of the cartridge-stops, the said parts operating in the manner herein set forth.

4. In firearms, a frame having an outlet for cartridges, springs controlling cartridge-stops, mounted within the side portions of the frame, which stops are secured at one end, being free at their opposite ends, and lugs at the movable ends of the stops, adapted to engage with and to be disengaged from a cartridge, as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM W. HUMPHREYS.

Witnesses:

GEO. W. BOYDEN,
FRED G. LINDNER.