

A. I. RISSEK.
FIREARM.

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975,720.

Patented Nov. 15, 1910.

Fig. 1.

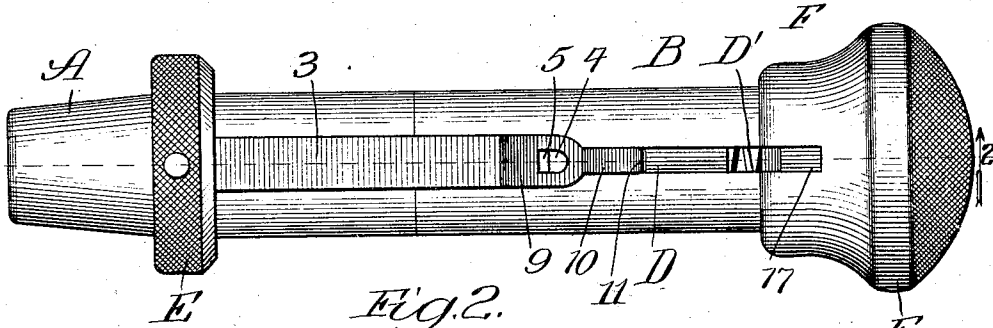


Fig. 2.

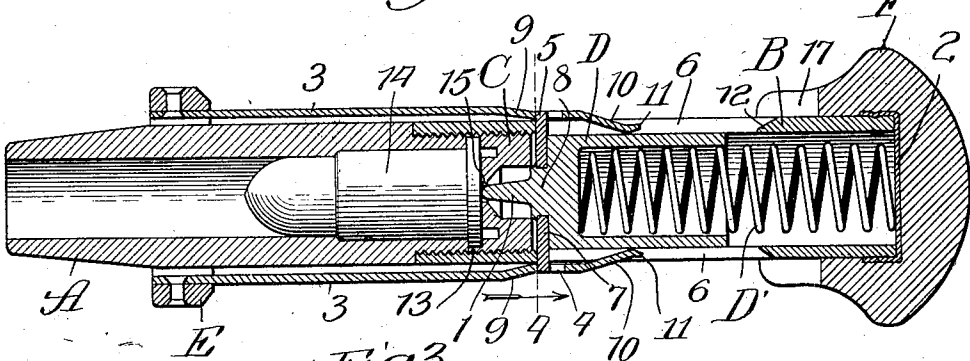


Fig. 3.

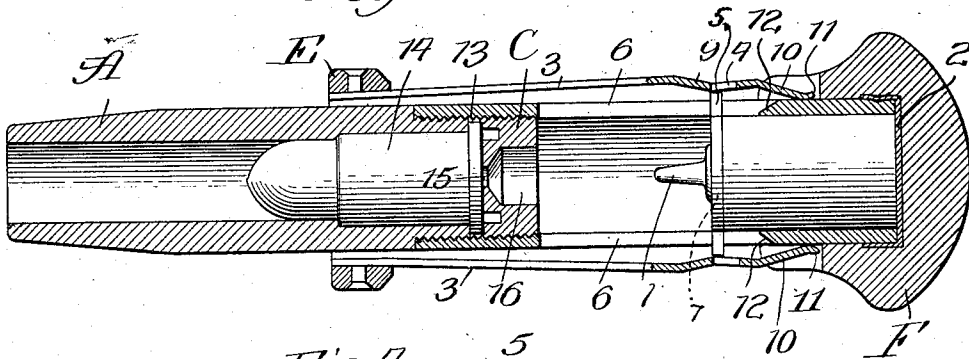
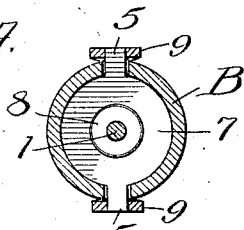


Fig. 4.



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UNITED STATES PATENT OFFICE.

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FIREARM.

975,720.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ARTHUR I. RISSEK, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Firearms, of which the following is a specification.

My invention relates particularly to pocket fire-arms of the character set forth in patent to Webber, No. 788,866, May 2, 1905; and my primary object is to improve said fire-arms in certain details of construction, having for the purpose thereof the simplifying of the manufacture and the improvement of the operation of the fire-arms.

The invention is illustrated in the accompanying drawing, in which—

Figure 1 represents a side elevational view of a fire-arm constructed in accordance with my improvements; Fig. 2, a sectional view taken, as indicated, at line 2 of Fig. 1, and showing the fire-arm in the discharging position; Fig. 3, a similar section showing the position of the parts after the plunger-carrying firing-pin has been retracted and released; and Fig. 4, a section taken as indicated at line 4 of Fig. 2.

In the preferred construction, the piece comprises a barrel A having an open rear end of reduced cross-section which is externally-threaded at the reduced portion; a cylindrical frame B having an open internally-threaded front end screwed on to the reduced rear end of the barrel; a breech-piece C screwed into the cylindrical member B and located near the front end thereof; a plunger D provided at the center of its front face with a firing-pin 1; a coiled spring D' seated in a bore which extends into the rear end of the plunger D and having its rear end bearing against the rear end or cap-piece 2 of the cylindrical member B; and a ring E slidably mounted on the barrel and equipped with rearwardly-extending spring-arms 3 which are provided near their rear ends with slots, or perforations, 4 adapted to engage catches, or projections, 5 which project laterally from the plunger D.

The tubular frame B is provided with longitudinally-extending lateral slots 6 through which the arms, or catch-members, 5 project. Said catch-members 5 are carried by a ring 7 which is secured on the reduced front-portion 8 of the plunger D at the base of the firing-pin 1. In assembling

the parts the ring 7 is introduced through one of the slots 6, the plunger D is inserted from the rear of the tubular member B, and the front end of the reduced portion 8 of the plunger, which projects through the bore in the ring 7, is upset or riveted against the front surface of the ring, by means of a tubular punch. When it is desired to retract the plunger the ring E is moved forwardly to the position shown in Figs. 1 and 2 to allow the slots 4 of the spring-arms 3 to become engaged with the catch-members 5 carried by the ring 7. To facilitate this engagement the arms 3 are bent or inclined inwardly, as indicated at 9. The arms then extend parallel with each other at the portions in which the slots 4 are located, and in the rear of said portions the arms are bent or inclined inwardly, as indicated at 10, so that the extremities of the arms will enter the slots 6. The extreme end portions of the arms are preferably curved outwardly slightly, as indicated at 11, affording cams adapted to spread the arms 3 and release the plunger after it has been fully retracted.

Between the breech-block C and the rear end of the reduced portion of the barrel A is a space 13 adapted to accommodate the flange of the cartridge 14; and said breech-block is provided with a central perforation 15 adapted to receive the firing-pin, said perforation being counterbored at the rear portion of the breech-block, as indicated at 16, to accommodate the projection 8 of the plunger and base portion of the firing-pin.

As has been indicated, the rear end 2 of the tubular member B may comprise a sheet-metal cap whose flange is adapted to embrace the rear portion of the tube, and which may be secured in place by a prick-punch operation. Over the cap 2 and the rear end of the tubular frame B is slipped a rubber handle, or knob, F. The flange of this member is provided with lateral slots 17.

The manner of use may be stated briefly. The barrel may be readily unscrewed from the frame to permit the insertion of a cartridge and when the parts are again joined together the flange of the cartridge is clamped firmly between the breech-piece and the rear end of the barrel. In the firing operation, the piece is held in the hand with the handle F resting upon the palm of the hand and the barrel lying between the index and middle fingers, by means of which the

slide may be retracted, forcing the plunger D rearwardly against its spring. When the extremities of the spring-arms 3 impinge upon the frame at the rear ends of the slots 6, the spring-arms are spread apart, thereby releasing the plunger, which then flies forward under the force of its spring and produces the explosion. The piece (exaggeratedly illustrated) is of small enough size to permit it to be handled readily in the manner described. Moreover, the form and small size of the piece permit it to be carried readily about the person and to be carried or drawn unnoticed in case of emergency. The piece is, of course, intended for use at short range where it is unnecessary to take aim.

In the improved construction, the plunger is provided with a comparatively long contact with the bore of the tubular frame, the spring is properly housed, and there is no opportunity for the spring-arms 3 to engage the main spring in any detrimental manner. Moreover, the spring-arms 3 may be produced in a stamping operation, in which operation the slots 4 may be formed. Also, the piece 7 may be stamped from sheet-metal and may be readily applied.

What I regard as new and desire to secure by Letters Patent is—

1. A fire-arm comprising a tubular frame, a barrel supported thereby, a spring-held plunger in said frame equipped at its front end with a seat for a ring, a ring secured on said seat and provided with lateral projections extending through lateral slots in said tubular frame, and a slide-ring encircling said barrel and provided with rearwardly extending spring-arms having extremities

entering the slots of said tubular frame and having also slots adapted to engage said lateral projections.

2. A fire-arm comprising a tubular frame, a barrel supported thereby, a spring-held plunger in said frame, having at its front end a reduced portion carrying a firing-pin, a ring seated on the reduced portion of said plunger and riveted thereon, said ring having lateral projections extending through lateral slots in said tubular frame, and a slide-ring encircling said barrel and provided with rearwardly-extending spring-arms having inwardly-bent extremities entering said slots and having also slots receiving said lateral projections, the walls at the rear ends of the slots in said tubular frame adapted to serve as cams for spreading said spring-arms to release the plunger.

3. A fire-arm comprising a tubular frame, a plunger therein having a bore in its rear end and equipped at its front end with a forwardly-projecting firing-pin, a coiled spring having its front end entered in the bore in said plunger and its rear end bearing against the rear end of said tubular frame, said tubular frame having lateral longitudinal slots, a barrel carried by said tubular frame, a slide-ring mounted on said barrel and equipped with rearwardly-extending spring-arms having inwardly-bent extremities entering said slots, and catch-means between said spring-arms and plunger, for the purpose set forth.

ARTHUR I. RISSE.

In presence of—

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