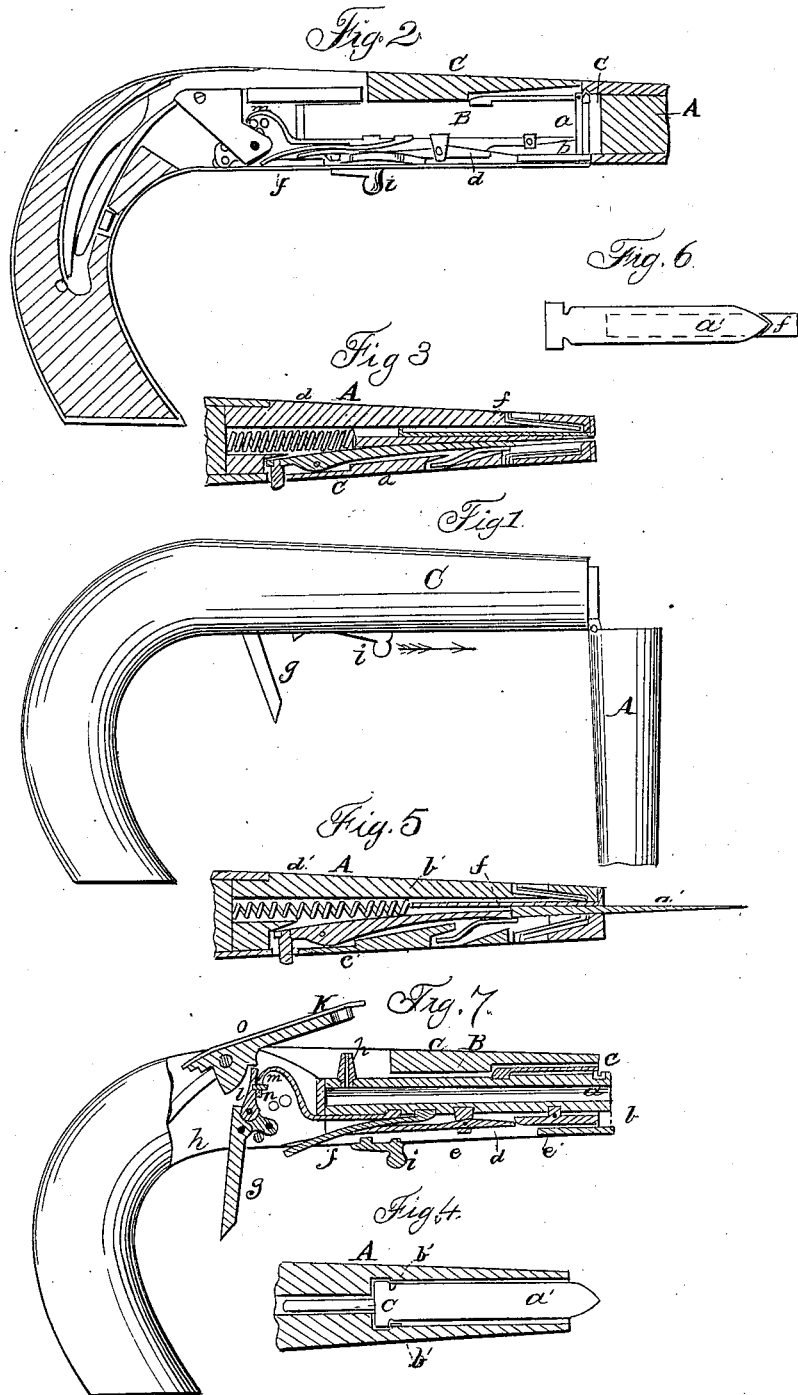


TILTON & FLOYD
Breech-Loading Fire-Arm.

No. 16,761:

Patented Mar. 3, 1857.



UNITED STATES PATENT OFFICE.

JOHN TILTON AND WILLIAM FLOYD, OF ROCK HOUSE, OHIO.

IMPROVEMENT IN PORTABLE FIRE-ARMS.

Specification forming part of Letters Patent No. 16,761, dated March 3, 1857.

To all whom it may concern:

Be it known that we, JOHN TILTON and WILLIAM FLOYD, of Rock House, in the county of Hocking and State of Ohio, have invented a new and useful Improvement in Portable Fire-Arms; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, forming part of this specification, in which—

Figure 1 is a side view of the fire-arm in position for discharging. Fig. 2 is a sectional view showing the muzzle covered. Fig. 3 is a sectional view showing the extremity of the covering-piece adapted to the reception of a blade. Fig. 4 is a view showing the manner of holding the blade. Fig. 5 is a view showing blade protruded. Fig. 6 is a view of blade and notched forcing-piece. Fig. 7 is a longitudinal section of the fire-arm, showing hammer raised.

Similar characters of reference in the several figures denote the same part.

The nature of our invention consists in the combination of mechanical devices, hereinafter to be described, for the simultaneous release of the trigger and removal of the muzzle-covering, the fire-arm being adapted to walking-canes and other analogous situations.

In the drawings, B is the barrel of the fire-arm, inclosed in a casing, C, which serves as the upper portion of a walking-cane. At the extremity of the fire-arm is hinged the muzzle-cover A, which, in the drawings, constitutes a portion of the body of the cane. The muzzle-cover is secured in the prolongation of the fire-arm by a spring-catch, *c*, as shown in Fig. 1. This catch is united by a bridle, *a*, with the lever *b*, the short arm of which rests on an arm of lever *d*, the fulcrum of these levers being at *e* and *e'*, respectively. Pressing upon the long arm of lever *d* is a spring, *f*, whose force, when exerted on said lever, will draw down the spring-catch *c* and allow the muzzle-cover A to fall into position shown in Fig. 2.

The trigger *g* is movable about pin *h*, so as to be folded under the fire-arm, where it is held by its extremity passing under the sliding

catch *i*. In assuming this position the trigger will press the spring *f* upward, and relieving the long arm of lever *d* allow spring-catch *c* to act. It will therefore be seen that when the trigger is forced into the position to be held by slide-catch *i* the spring-catch *c* will be free to hold the muzzle-cover, as shown in Fig. 1. When slide-catch *i* is drawn in direction of arrow, the spring *f* will throw the trigger *g* into position for use, and by the same operation act upon lever *d*, so as to draw the spring-catch *c* downward and permit the muzzle-cover to fall into position, shown in Fig. 2. The trigger can then be drawn back so as to lift the hammer *k*, as shown in Fig. 7. A continued drawing of the trigger causes stud *m*, by pressure on stud *n*, to withdraw the dog *l* from notch *o*, when the hammer falls and the discharge takes place from the explosion of a cap on vent-tube *p*, as in other fire-arms.

When this fire-arm is adapted to a walking-cane, the lower extremity of the muzzle-cover A may contain a blade, *a'*, held by projections *b'* on a spring-lever, *c'*, when the said blade is within the casing. The spring *d'* will force the blade out into position shown in Fig. 5, when by turning lever *c'* about its fulcrum the projections *b'* leave the notches *e'* of the blade. The slide-piece *f'* serves to force the blade downward so as to be held by the aforesaid projections. This portion of the cane is altogether independent of the construction claimed as new in the fire-arm, and therefore need not be particularly described.

What we claim as new and of our own invention, and desire to secure by Letters Patent, is—

The combination of the levers *b* and *d*, spring *f*, and bridle *a*, arranged and operating substantially as described, for effecting the simultaneous release of the trigger and removal of the muzzle-cover.

In testimony whereof we have hereunto signed our names before two subscribing witnesses.

JOHN TILTON.
WILLIAM FLOYD.

Witnesses:
SAMUEL EBY,
ALLEN MILLER.