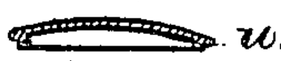
C. MELAYE.

CANE-GUN.

No. 170,684. Patented Dec. 7, 1875.



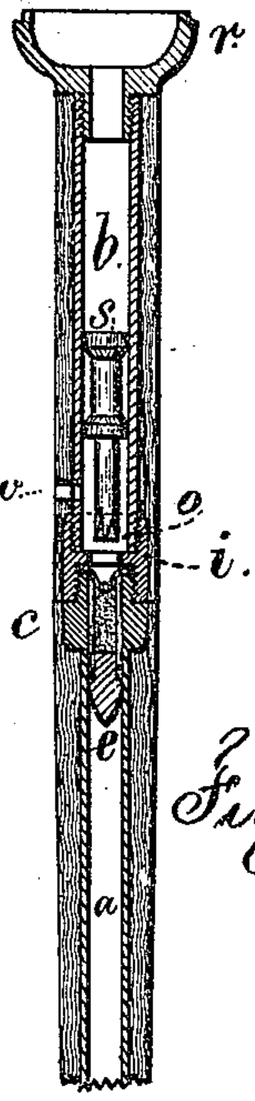


Fig. 1.

Fig 3

Fig. 4.

Fig. 2.

Witnesses
Chas. H. Smith
Harold Serrell

Inventor
Charles Melaye
per Lemuel W. Serrell
atty

UNITED STATES PATENT OFFICE.

CHARLES MELAYE, OF NEW YORK, N. Y.

IMPROVEMENT IN CANE-GUNS.

Specification forming part of Letters Patent No. **170,684**, dated December 7, 1875; application filed May 24, 1875.

To all whom it may concern:

Be it known that I, CHARLES MELAYE, of the city and State of New York, have invented an Improvement in Walking-Stick Guns, of which the following is a specification:

Walking-sticks have been made to contain a gun-barrel, and the hammer has been in the handle end operated by a spring and trigger; but these guns are complicated, costly, and liable to get out of order.

My invention is made for simplifying the construction of the gun and lessening the risk of derangement, and producing a cheap and durable article.

I employ a tube within the walking-stick, which tube is preferably of steel. The tube is in two parts, that can be separated for the insertion of a center-fire cartridge, and in the upper end of the tube is a fly-hammer, that is operated by air blown from the mouth, so that the person using the gun inserts the cartridge, screws the tube together, arms the gun from his mouth, draws the hammer back by the suction of the mouth, and then drives it forward by ejecting air from the mouth, and the force of the hammer is sufficient to explode the detonating material and fire the cartridge.

In the drawing, Figure 1 is a longitudinal section. Fig. 2 shows the ferrule-piece separately, and Fig. 3 represents the hammer by a side and end view.

The metal tube *a*, forming the gun-barrel, is connected to the hammer-tube *b* by a screw-coupling, *c*, or by a bayonet-lock, as seen in Fig. 4, and these tubes are within the wood or cane or other covering forming the ornamental stick or walking-cane, and a ferrule-piece, *d*, is made with a spring-shank, that passes into the lower end of the barrel *a* to hold such ferrule in place; but this can be withdrawn instantly when the gun is to be used.

The cartridge *e* is of any ordinary character, either with shot or balls. A rim at the back, to rest against the upper end of the tube *a*, and a central fulminate or primer, are provided, and the recoil-shield *i* is inserted at the lower end of the tube *b* to rest against the base of the cartridge, and in this shield there is a central opening that admits the end *o* of the hammer *s* to pass to the cartridge to explode the same.

The upper end of the stick is made with a hollow head, *r*, and a movable cap-piece, *u*, that springs to place when pressed upon the portion *r*, which portion *r* forms a mouth-piece when the hammer is blown forward, as aforesaid, to explode the cartridge. This operation, however, could not be performed were it not for the vent-hole *w*, that allows the air to escape freely in front of the hammer as it is blown forward.

This hammer should be of suitable weight, and made in the form shown with two disks or pistons, forming also guides to direct its movement in the tube *b*. This hammer may be taken out by unscrewing the mouth-piece and carried in the pocket to prevent risk of accidental discharge.

I claim as my invention—

The walking-stick gun made of the tubes *a b*, connected together and receiving the cartridge, in combination with the mouth-piece *r*, sliding hammer *s*, operated by the air expelled from the mouth, and the vent *w*, substantially as set forth.

Signed by me this 20th day of May, 1875.

CHARLES MELAYE.

Witnesses:

GEO. T. PINCKNEY,

CHAS. H. SMITH.