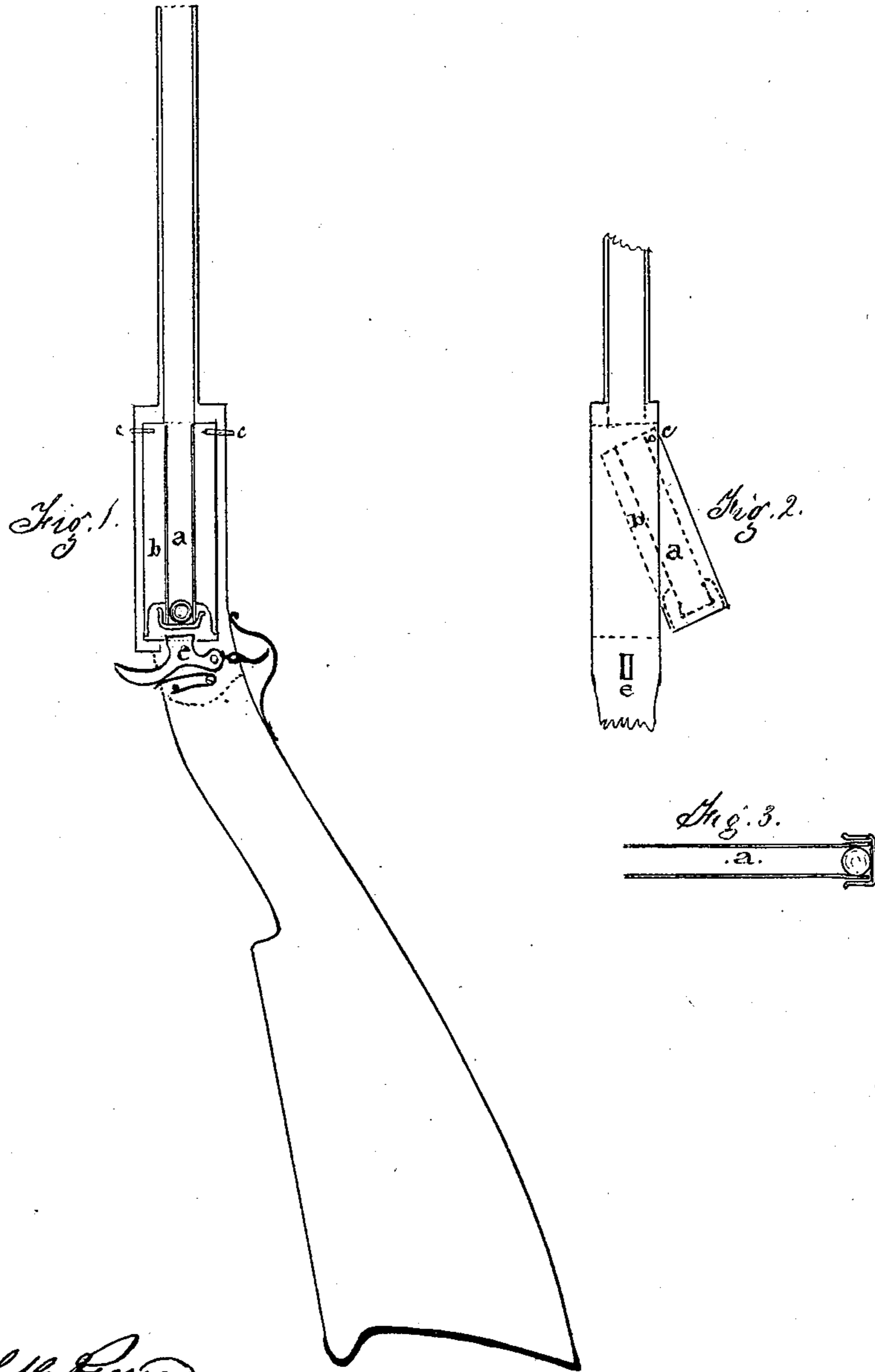


A. B. KAY.

Breech-Loading Fire-Arm.

No. 109,419.

Patented Nov. 22, 1870.



*Stephen H. Person*

*A. Henderson*

Witness.

*Allen B. Kay*  
Inventor

# United States Patent Office.

ALLAN B. KAY, OF NEWARK, NEW JERSEY,

Letters Patent No. 109,419, dated November 22, 1870.

## IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

The Schedule referred to in these Letters Patent and making part of the same.

I, ALLAN B. KAY, of the city of Newark, in the county of Essex, have made certain Improvements in what are technically termed Cap-Guns, of which the following is a specification.

The improvement relates to the adaptation of breech-loading facilities to that class of fire-arms in which the explosive force of the detonating powder in the cap is the exclusive propelling power to the shot.

In providing for this object I ream out the breech-end of the discharging-tube or barrel of the gun to receive a shot that requires a slight pressure to force it through the barrel, so that when the percussion cap, with the shot laid loose in it, is put upon the end of the tube, the shot is held close to the detonating powder in the cap with an air-tight joint at the breech-end of the tube, the stiffness of the spring that impels the hammer enabling me to dispense with the ordinary breech-pin.

In the accompanying drawing—

Figure 1 is one manner of adaptation of the improvement to a gun-stock.

Figure 2 is a top view of the same.

Figure 3 is the reamed breech-end of the tube or barrel with the cap and shot in position.

Fig. 1 shows a part of a tube or discharging-barrel, *a*, as inserted in a chamber-piece, *b*, that, turning upon a pin, *c*, out upon one side of the stock, as in fig. 2, presents the breech-end for the reception of the cap and the shot on the end of the tube *a*. Returning the chamber-piece to the stock presents the cap to the hammer *e*.

I do not confine myself to any particular manner among the variety of adaptations or connections with the gun-stock that can be made with the improved tube or barrel.

What I claim as my improvement and desire to secure is—

The tube or barrel *a*, when constructed and adapted in the manner described, for the purpose specified and shown.

ALLAN B. KAY.

Witnesses:

RALPH M. PLUME,  
A. LINDEMAN.