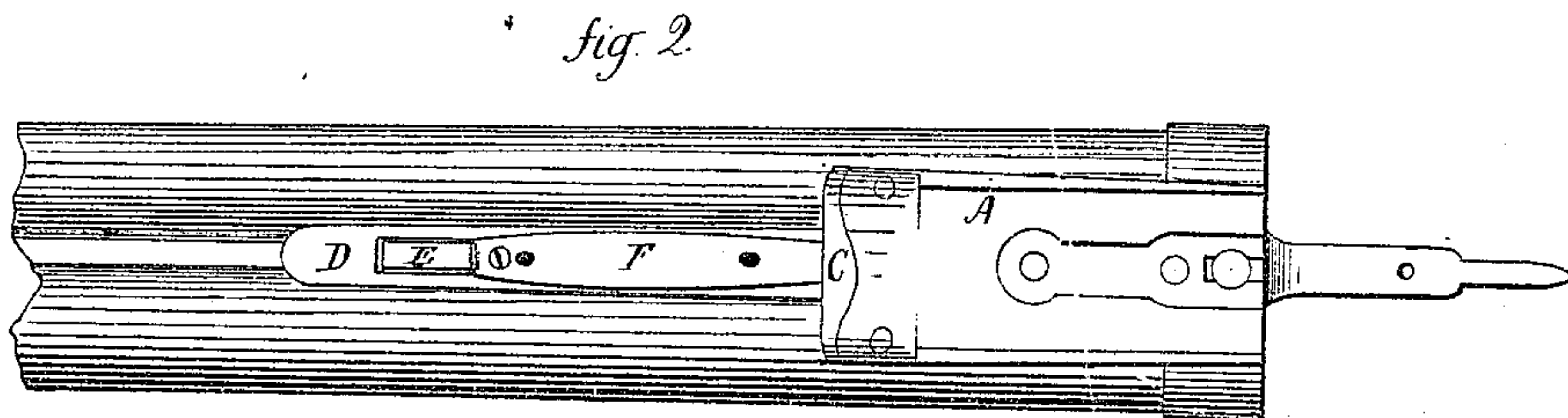
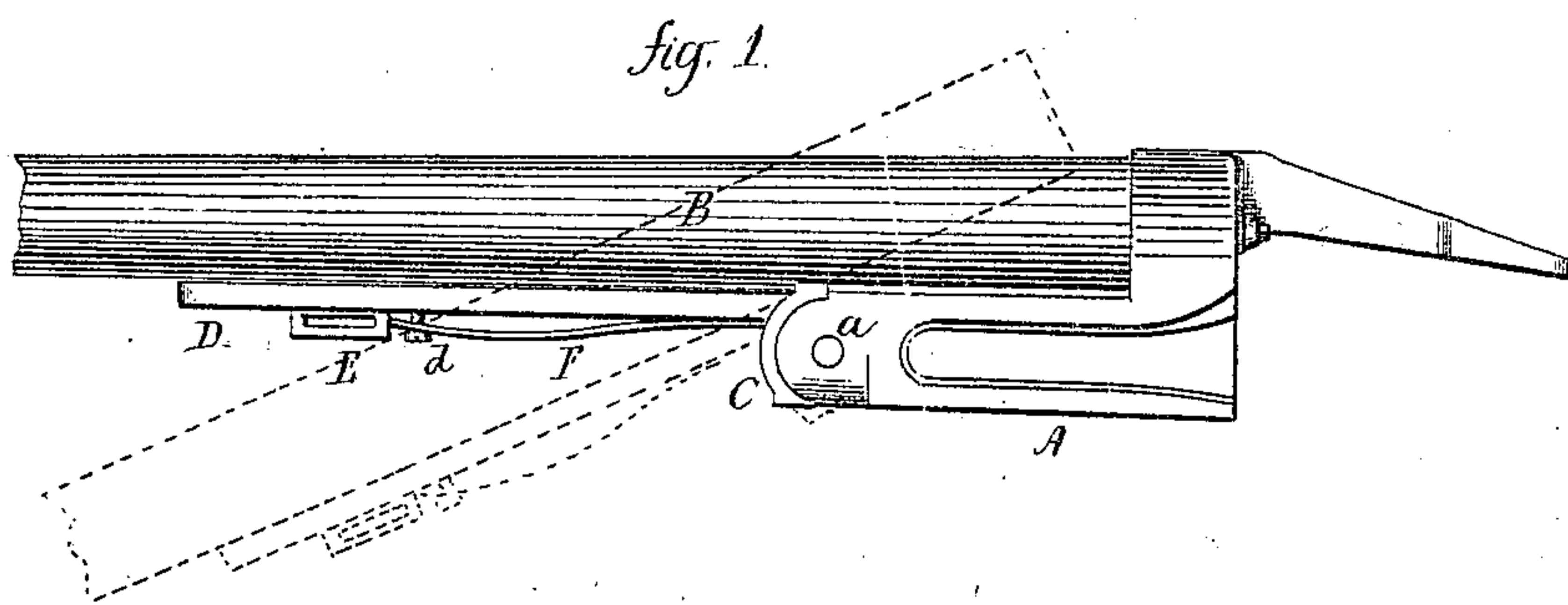


J. L. RAUB.  
Breech-Loading Fire-Arms.

No. 146,473.

Patented Jan. 13, 1874.



Witnesses  
W. H. Shumway  
J. L. Roberts

Joseph L. Raub  
Inventor  
By Atty.  
Thos. A. Earle

# UNITED STATES PATENT OFFICE.

JOSEPH L. RAUB, OF NEVADA, OHIO, ASSIGNOR TO CHARLES PARKER, OF  
MERIDEN, CONNECTICUT.

## IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. **146,473**, dated January 13, 1874; application filed  
December 27, 1873.

*To all whom it may concern:*

Be it known that I, JOSEPH L. RAUB, of Nevada, in the county of Wyandot and State of Ohio, have invented a new Improvement in Breech-Loading Fire-Arms; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a side view; and in Fig. 2, an under-side view, looking up.

This invention relates to an improvement in that class of fire-arms known as "break-down" arms. In this class of arms, after a little use, the joint at the pivot becomes loose, so that, as soon as the barrel is unlatched, it will instantly break down and fall with considerable force against the shoulder provided to arrest it. This occasions no inconsiderable inconvenience to sportsmen. The object of this invention is to overcome these difficulties; and it consists in combining, with the cap which covers the joint, and an abutment on the barrel, an adjustable device, by means of which the cap may be pressed against the joint with a greater or less force.

The best method known to me for doing this is as follows:

A is the frame; B, the barrel, pivoted to the frame at *a*; C, the cap, which covers the forward side of the joint, and forms the rear end or protection for the wood stock beneath the barrel. This cap is provided with a tang, D, by which to attach it to the wood, and passes over the loop E, all substantially in the usual manner. F is a spring or metal bar, possess-

ing some degree of elasticity, slightly longer than the distance between the loop E and cap C, so that, when placed between these two points, it will be curved to some extent, as seen in Fig. 1. Through this spring a screw, *d*, is passed into the tang D, at a point where the turning in of the screw will extend the spring; therefore, by turning the screw down upon the spring, the cap will be pressed with a proportionate force against the frame of the joint, and to that extent increase the friction at the joint in breaking down, as, in falling, the cap moves over the surface of the frame at the joint.

While I prefer to use the loop E as the abutment against which the spring bears, it will be evident that an independent stud may be provided for this purpose and the same result accomplished. I therefore do not confine myself to the use of the loop as one of the abutments.

Withdrawing the screw will allow the recoil or return of the spring, and lessen the friction accordingly.

Instead of the spring F, a key or screw may be arranged between the abutment on the barrel and the cap, to produce the same result; but I prefer the spring, as not being so rigid as a screw or key.

I claim as my invention—

In combination with the frame A, barrel B, pivoted thereto, and the cap C, a device, substantially such as described, to adjust the friction between the cap and joint.

JOSEPH L. RAUB.

Witnesses:

C. W. BURKE,  
H. H. WELSH.