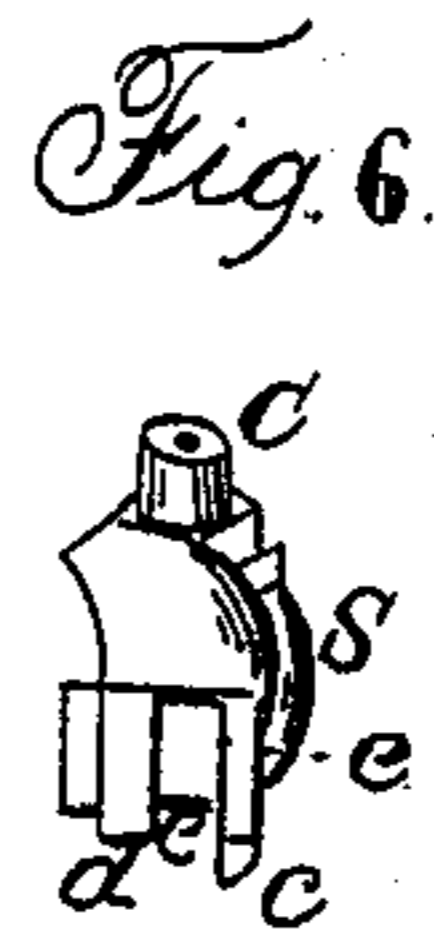
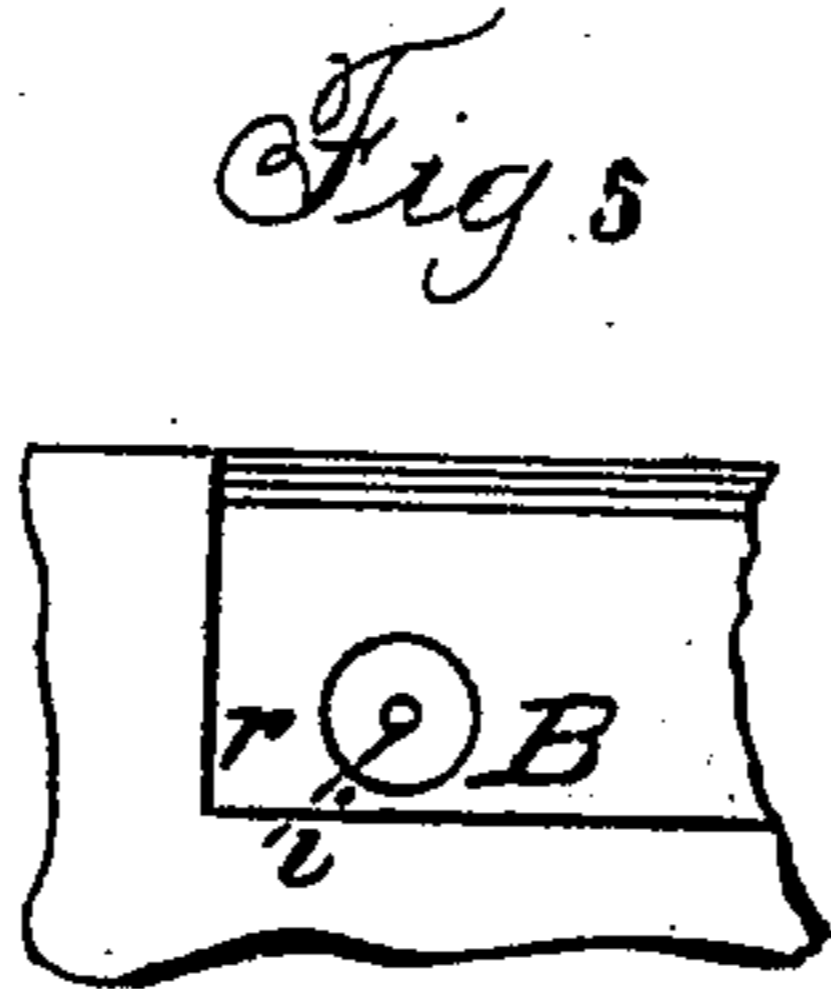
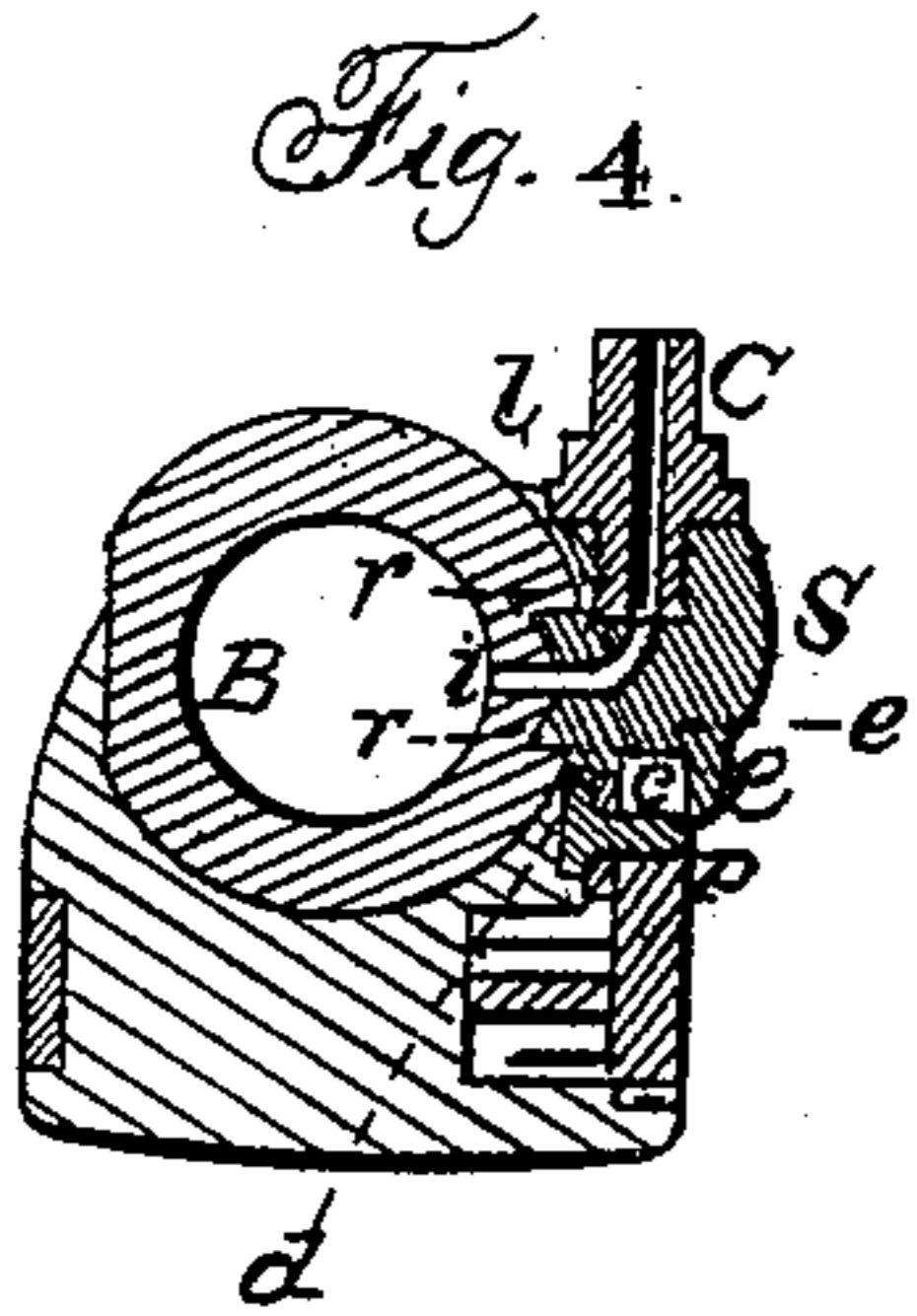
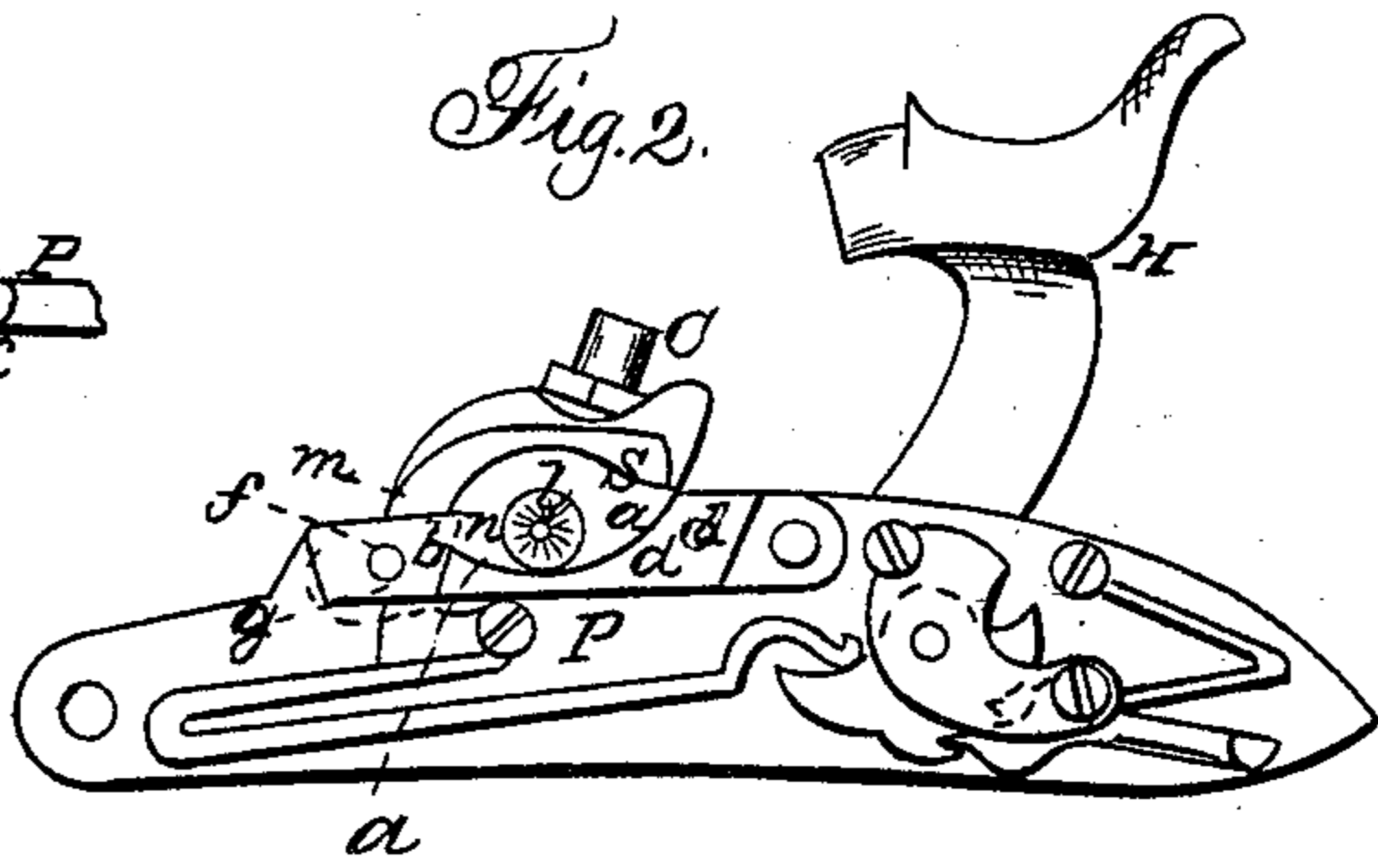
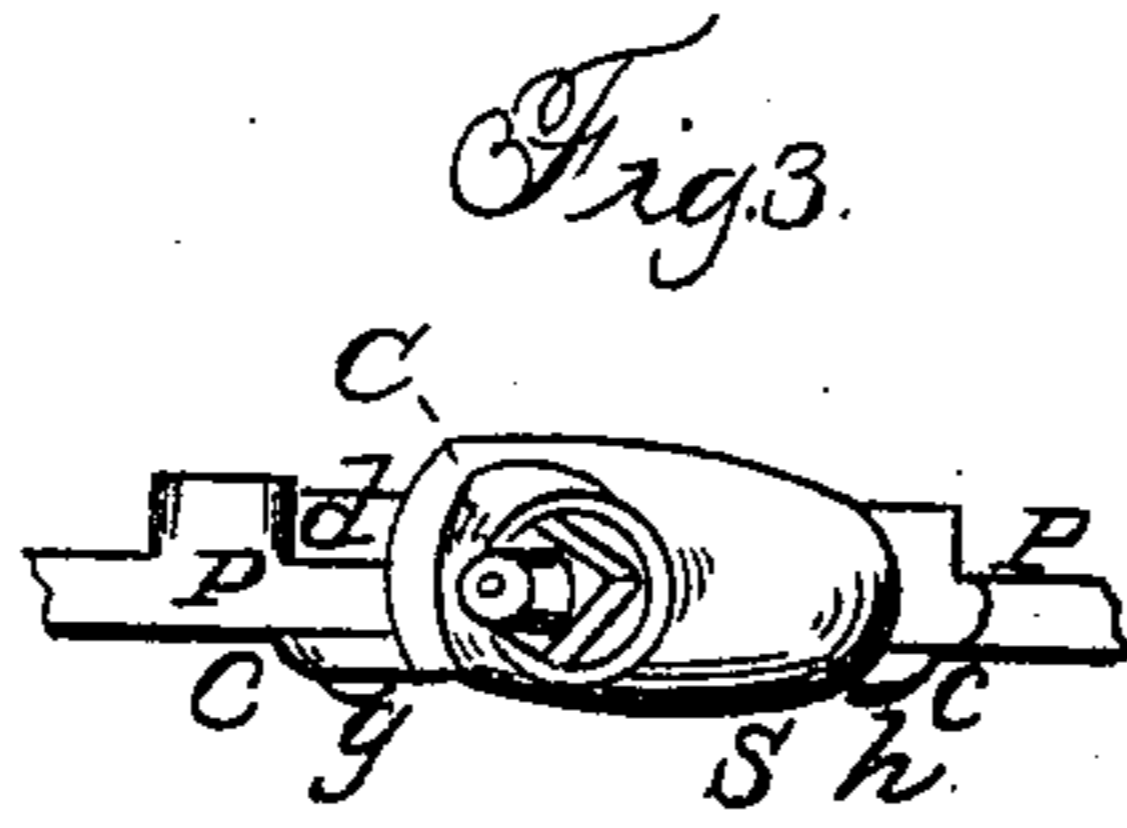
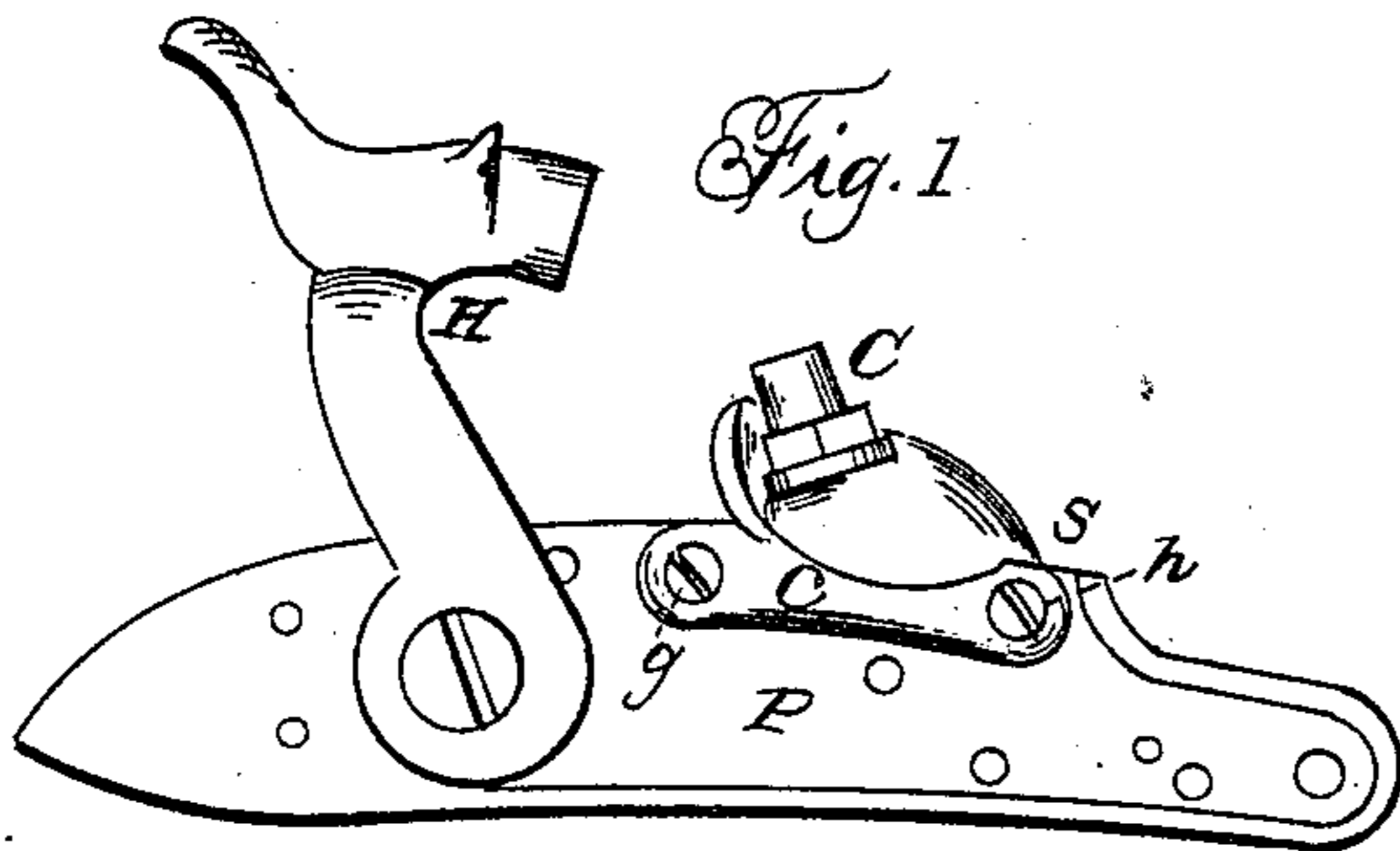


J. N. WARD.

Gun Lock.

No. 16,503.

Patented Jan. 27, 1857.



UNITED STATES PATENT OFFICE.

JAMES N. WARD, OF UNITED STATES ARMY.

IMPROVED MODE OF ALTERING FLINT-LOCK FIRE-ARMS TO PERCUSSION.

Specification forming part of Letters Patent No. 16,503, dated January 27, 1857.

To all whom it may concern:

Be it known that I, JAMES NOBLE WARD, of the United States Army, have invented a new and useful Improvement in the Mode of Changing Flint-Lock Fire-Arms to Percussion; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, forming part of this specification, in which—

Figure 1 is an outside view of lock with cone-seat attached as I propose. Fig. 2 is an inside view of the same. Fig. 3 is a top view of cone-seat and adjacent portion of lock-plate. Fig. 4 is a sectional view showing cone, cone-seat, and connection of same with the barrel. Fig. 5 is a side view of a portion of barrel, showing ball-recess in same.

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

My invention is designed as a simple mode of changing flint-lock fire-arms to percussion. It consists in securing a cone-seat upon the lock-plate in the notch from which the pan is taken, in a manner hereinafter to be set forth, said cone-seat joining the barrel by a ball-and-socket joint through which the vent-passage runs, the details of construction being as follows:

In the drawings, P is the lock-plate, in the upper edge of which is a notch, whose bottom is the curve *a*, and whose front portion is the surface whose edge is shown at *b*, Fig. 2. This is the notch in which the pan is secured when the lock is adapted to the use of the flint. In converting the fire-arm from a flint-lock to a percussion I secure upon the plate P a cone-seat, S. This seat has two flanges, *c* and *d*, which embrace the plate, while the surface *e*

between these flanges is of a form to rest upon the curved surface *a* of the notch above mentioned. The notch in the cone-seat, made up of the two surfaces whose edges are shown by lines *m* and *n*, is made to fit under the inclined projection *f* of the lock, this notch extending to the outside flange, *c*. Screws *g* and *h* are passed through flange *c*, the former into projection *f* of the plate and the latter through the plate and into flange *d*. Around the vent-passage *i* in the side of the barrel B. is formed a recess, *r*, whose bottom is elevated toward the center, so as to give it the appearance of spherical surface. When the lock-plate is in position, this recess receives a projection, *l*, on the flange *d* of the cone-seat, whose face is turned out to fit upon the ball-bottom of the recess *r*, as shown in Fig. 4. The vent passes through the cone C and its seat, as shown in said figure.

To change flint-lock fire-arms to percussion, it will simply be necessary to remove the pan and secure the cone-seat in position, and form the recess *r* about the vent-passage. The hammer H is attached to the tumbler *t* in the ordinary manner.

What I claim, and desire to secure by Letters Patent, is—

Securing the cone-seat upon the lock-plate and making the contact of said seat and the barrel, substantially as set forth, for the purpose specified.

In testimony whereof I have hereunto signed my name before two subscribing witnesses.

J. N. WARD

Witnesses:

H. BOARDMAN,
JOHN BISHES.