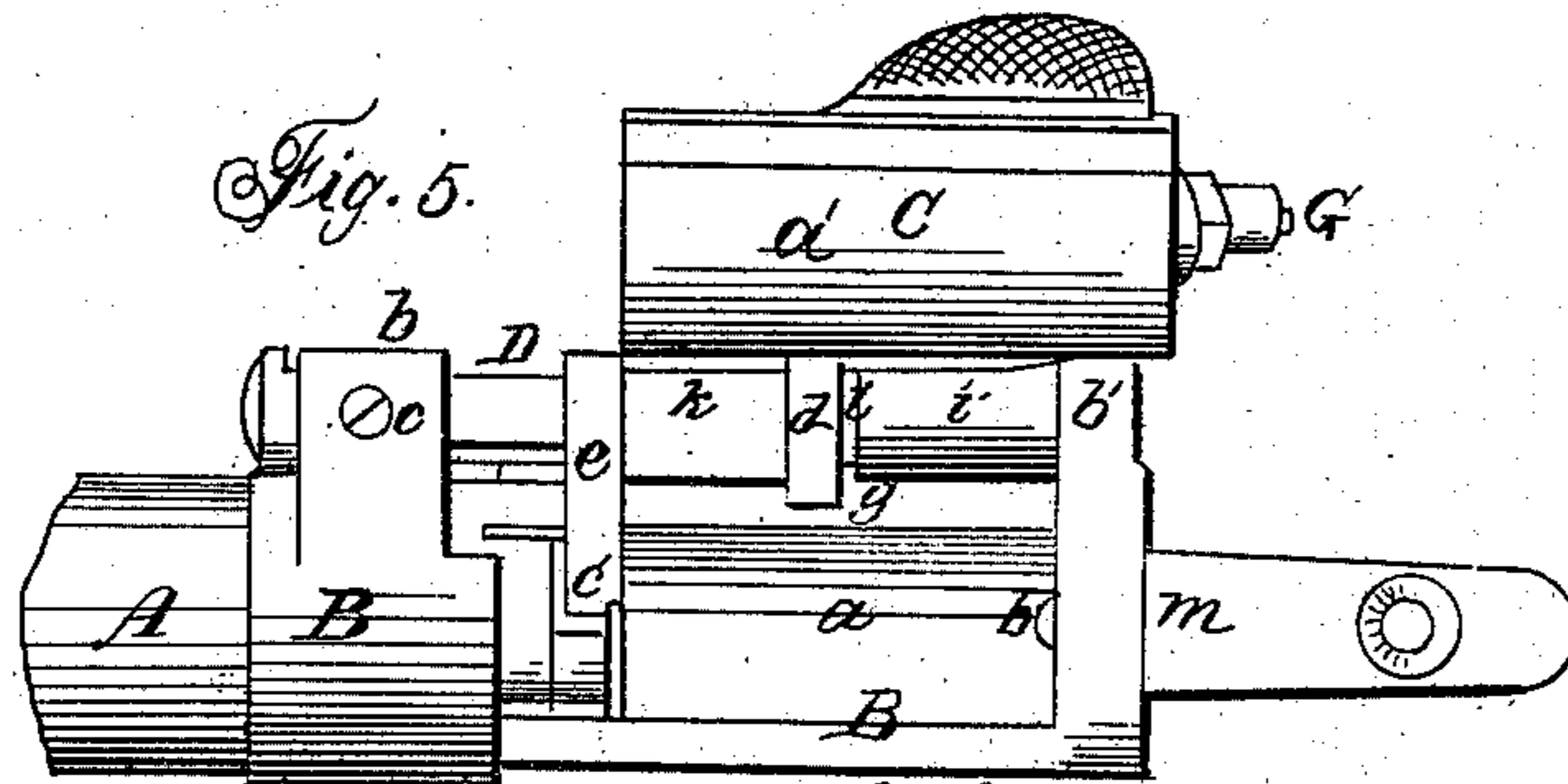
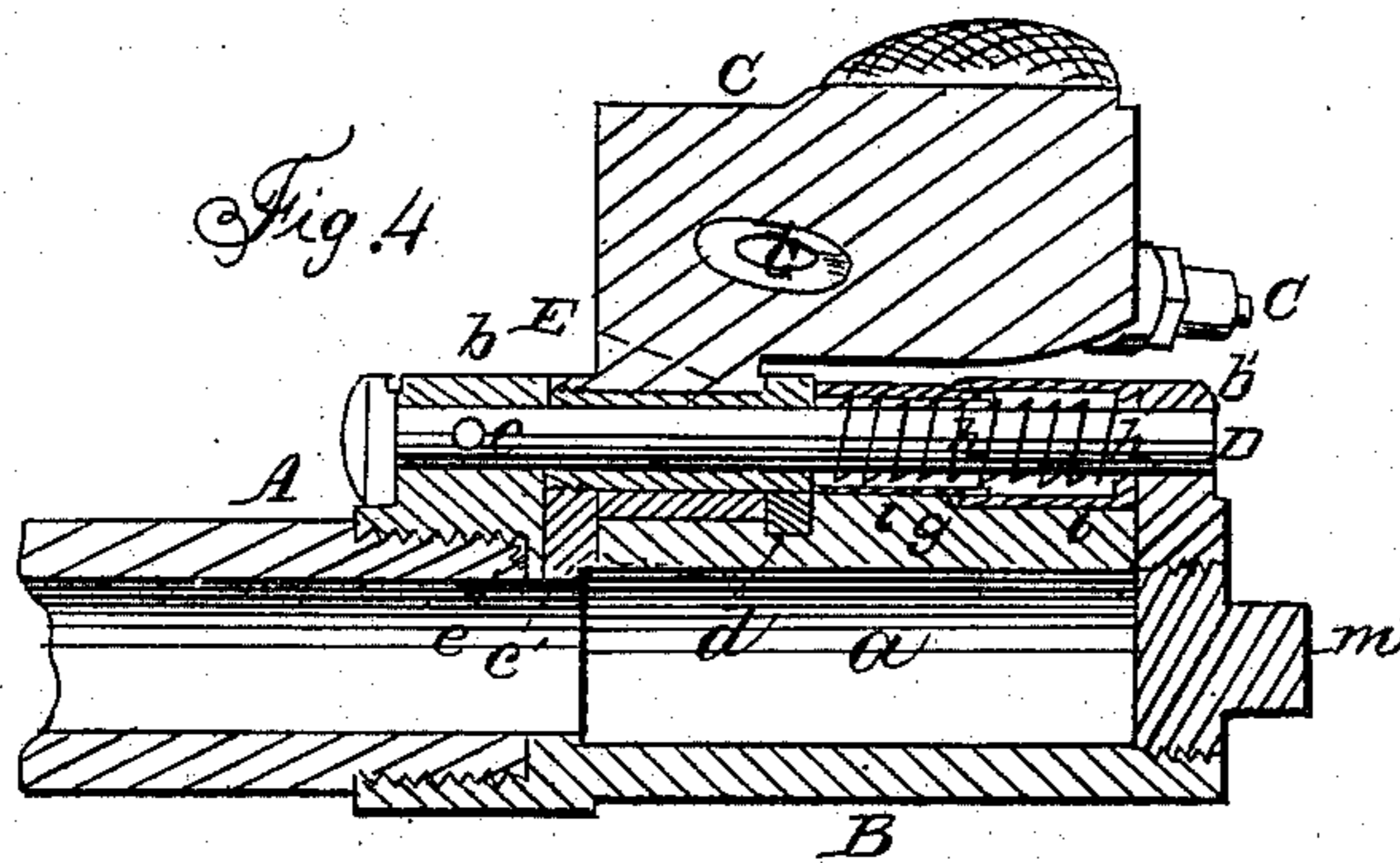
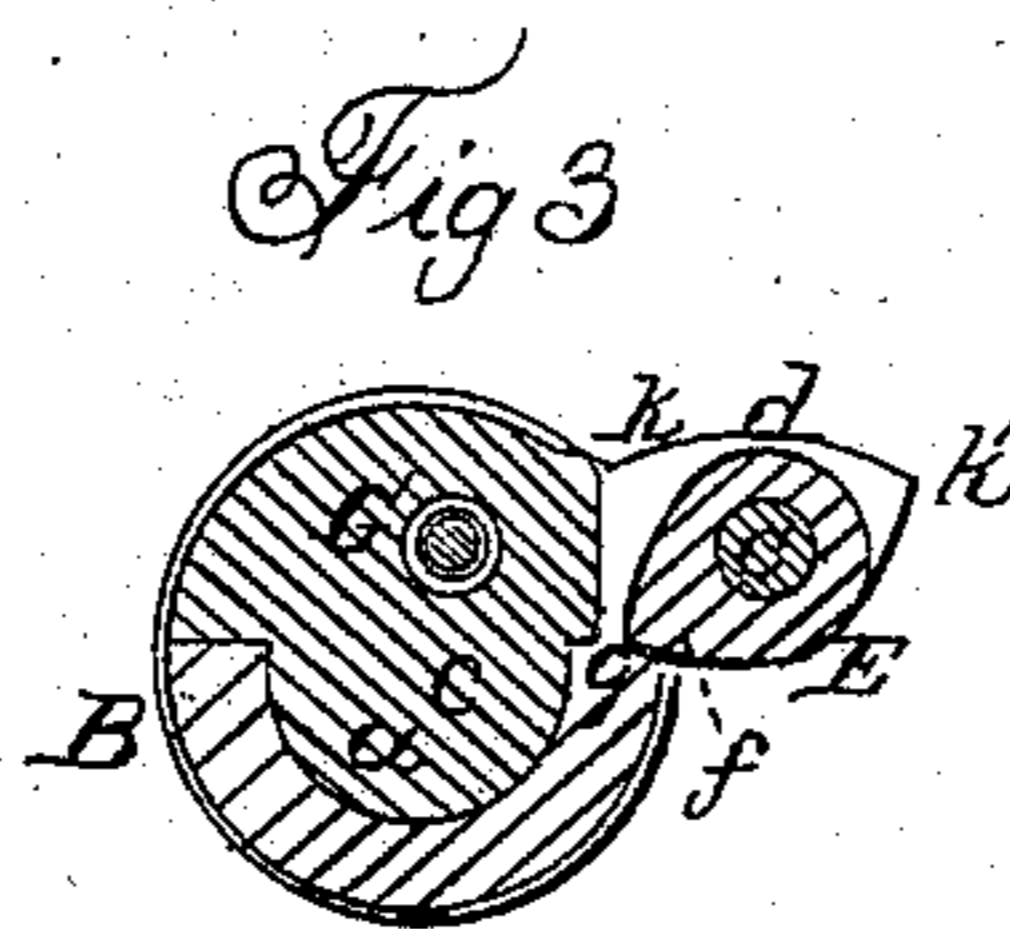
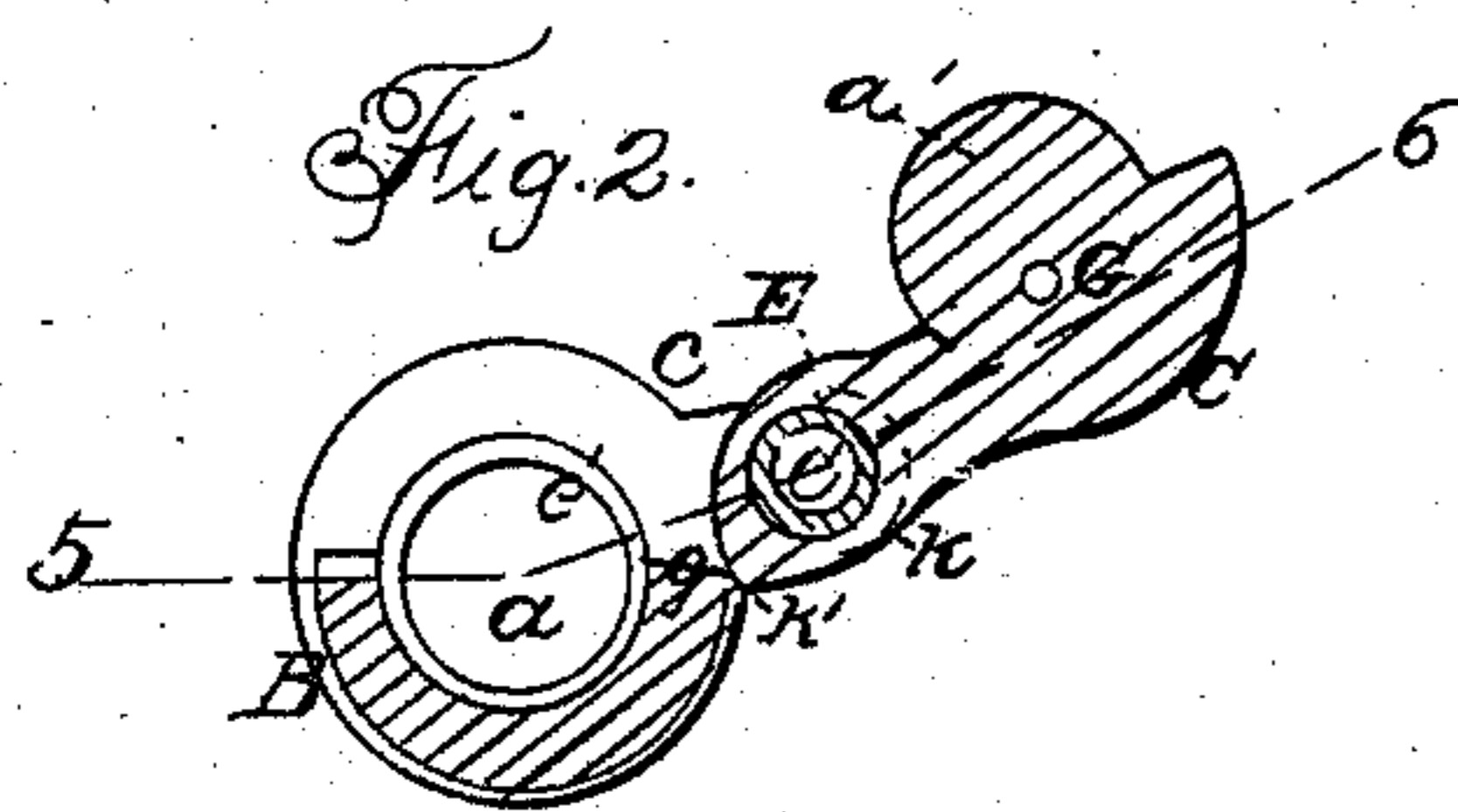
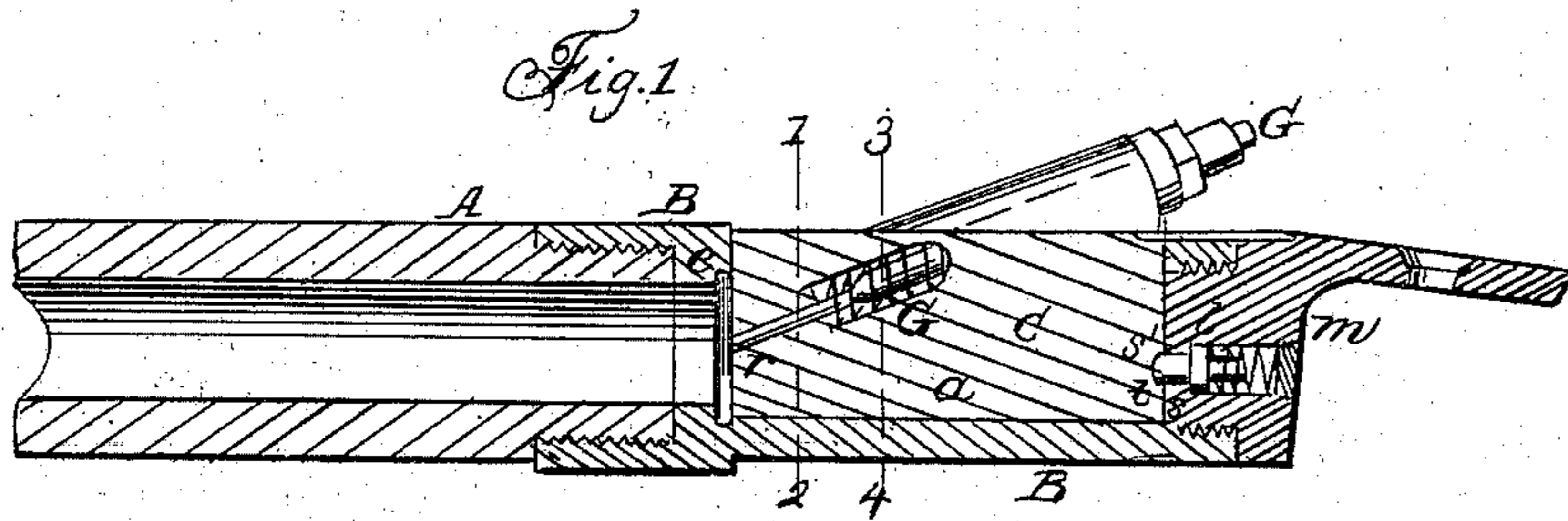


J. SNIDER, Jr.

Breech-Loading Fire-Arm.

No. 69,941.

Patented Oct. 15, 1867.



Witnesses

S. H. Annie Godwin
Wm. Albert Steel

A. Snider
Executive of Jacob Snider
By the Atty
H. Rowson

United States Patent Office.

ANGELINA SNIDER, OF PHILADELPHIA, PENNSYLVANIA, ADMINISTRATRIX OF THE ESTATE OF JACOB SNIDER, JR., DECEASED, ASSIGNOR TO JOHN VAUGHAN SNIDER.

Letters Patent No. 69,941, dated October 15, 1867.

IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that JACOB SNIDER, deceased, of the city of London, England, but formerly of Philadelphia, Pennsylvania, invented certain Improvements in Breech-Loading Fire-Arms; and I, ANGELINA SNIDER, the widow and administratrix of the said SNIDER, do hereby declare the following to be a full, clear, and exact description of the said invention, the main feature of which consists of a breech-piece having a projection adapted to a recess at the rear of the barrel, the said breech-piece being hinged to and arranged to slide on a pin secured to the fire-arm, and to aid in extracting the cartridge, all substantially as described hereafter.

In order to enable others skilled in the art to make and use the said invention, I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a longitudinal section of the improved breech-loading fire-arm.

Figure 2, a transverse section of the same, on the line 1-2, fig. 1.

Figure 3, a transverse section on the line 3-4, fig. 1.

Figure 4, a sectional plan view on the line 5-6, fig. 2; and

Figure 5 a plan view, showing the breech open, and an empty cartridge-case partly withdrawn from the bore of the barrel.

Similar letters refer to similar parts throughout the several views.

The barrel A of a breech-loading fire-arm is secured to a frame, B, in which is a semi-cylindrical recess, *a*, for the reception of the semi-cylindrical projection, *a'*, of the movable breech-piece C. A pin, D, passes through projections *b b'* on one side of the frame B, and is secured to the same by a set-screw pin, *c*, fig. 4. A sleeve, E, enlarged at the rear end *d*, is arranged to slide freely on the pin D, and to the opposite end of the sleeve is secured the cartridge-extractor *e*, which is adapted to a recess formed in the frame at the rear end of the barrel A. The outer end of the extractor is curved, and has a projection, *e'*, fig. 4, for a purpose described hereafter. On the under side of the extractor, and on the enlarged end of the sleeve E, are formed notches *f f*, fig. 3, adapted to the edge of the frame on one side of the opening *a*, so that the sleeve and extractor are prevented from turning upon the pin D as they are moved longitudinally upon the same. The sleeve E is maintained in the position shown in fig. 4 by a spiral spring, *h*, which is contained within two hollow cylindrical cases, *i* and *i'*, the latter bearing against the projection *b'* of the frame, and the former being arranged to slide in the case *i'*, and bearing against the sleeve E. On one side of the breech-piece C is a projection, *k*, by means of which it is hinged to the sleeve E, and a portion, *k'*, of the said projection is of the peculiar shape shown in the drawing, for a purpose described hereafter. A pin, *l*, which is arranged to slide in an opening cut in the breech-piece *m*, has a rounded end, adapted to a recess, *s'*, formed in the rear of the breech-piece C, the end of the pin being retained in the recess by a spring, as shown in fig. 1. A spring-striker, G, passes diagonally through the breech-piece, its end, *r*, coinciding with the centre of the barrel.

The several parts being in the position shown in figs. 1 and 3, and a loaded "centre-fire" cartridge, provided with the ordinary flanged head, being contained within the bore of the barrel, in contact with the front of the breech-piece C, the arm is ready to be discharged, which is effected by a blow given to the striker G by the usual hammer. The empty cartridge-case remains in the barrel; and previous to removing it the hinged breech-piece C is turned upon the sleeve E to the position shown in figs. 2 and 4, or until its projection *k'* comes in contact with the side of the frame B, by which means its further outward movement is arrested. Then the breech-piece, fig. 4, is grasped by the hand, and drawn back in the direction of the arrow to the position shown in fig. 5, carrying with it the sleeve E, case *i*, and compressing the spiral spring *h*, and partly withdrawing the spent cartridge-case from the bore of the barrel, the projection *e'* of the extractor bearing against the flange of the same, as shown in fig. 5. When the breech-piece C is released it will, with the parts connected to it, by the action of the spiral spring *h*, return to its original position, leaving the cartridge-case in the recess *a* at the rear of the barrel, from which it may be removed by hand, or dropped by inverting the fire-arm. A new cartridge is then inserted, and the breech closed preparatory to another discharge. In closing the breech, its bevelled rear, *s*, fig. 1, strikes and pushes back the spring-pin *l*, which, when the breech is completely closed,

enters its recess, *s'*, and to a limited extent locks it, a slight effort being required to again open the breech, as the pin *l* must be first pushed back by the bevelled face *t*. The return sliding movement of the breech-piece towards the bore of the barrel may be effected by hand, without the aid of a spring, although the use of the latter is preferable.

I claim as the invention of the said JACOB SNIDER, and desire to secure by Letters Patent—

1. The breech-piece C, having a projection, *a'*, adapted to a recess, *a*, at the rear of the barrel, when the said breech-piece is hinged to and arranged to slide on a pin, D, for the purpose of extracting the cartridge, all substantially as set forth.

2. The combination of the breech-piece C, sleeve E, pin D, and extractor *e*, attached to the sleeve.

3. The sleeve, and its notched enlargement, *d*, in respect to the edge *g* of the frame.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

Witnesses:

GEO. H. RIGBY,

JOEL HOLLINGSWORTH.

ANGELINA SNIDER.