

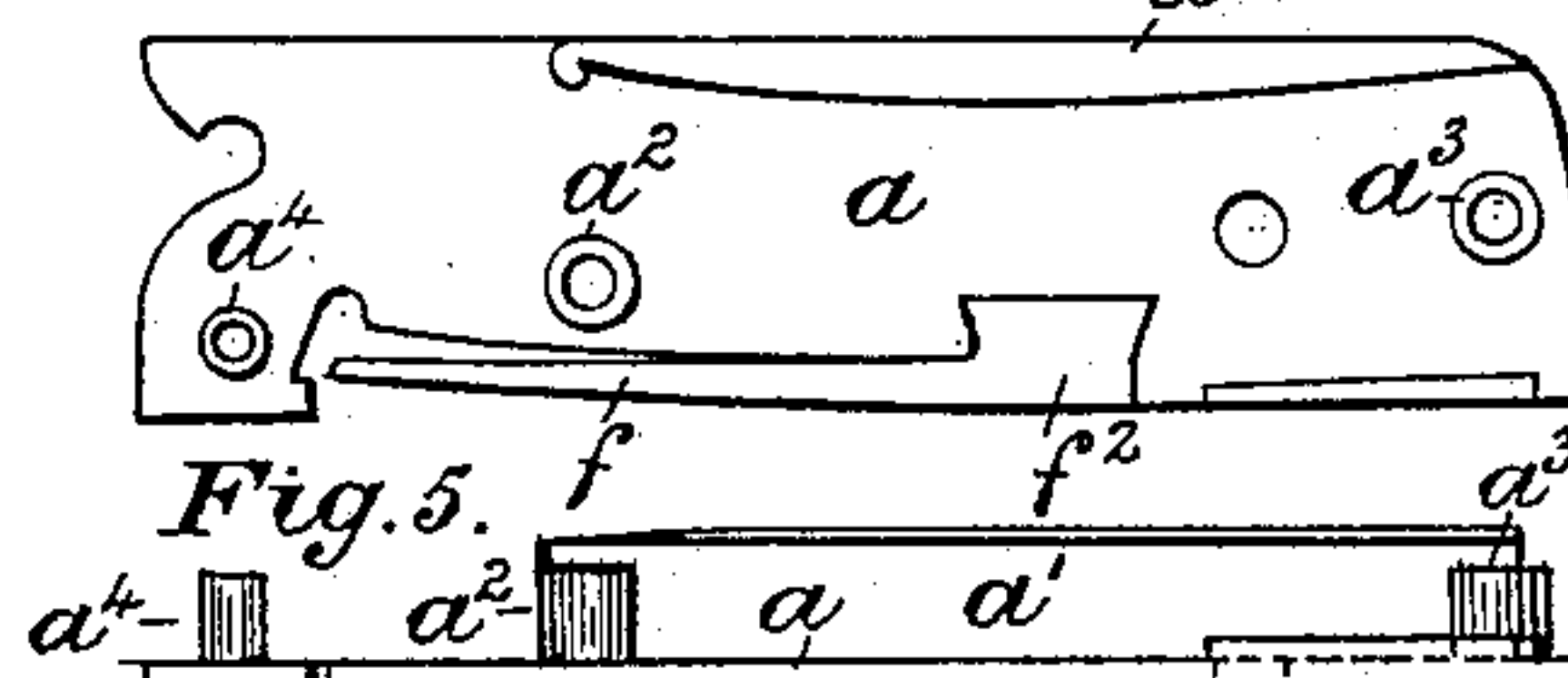
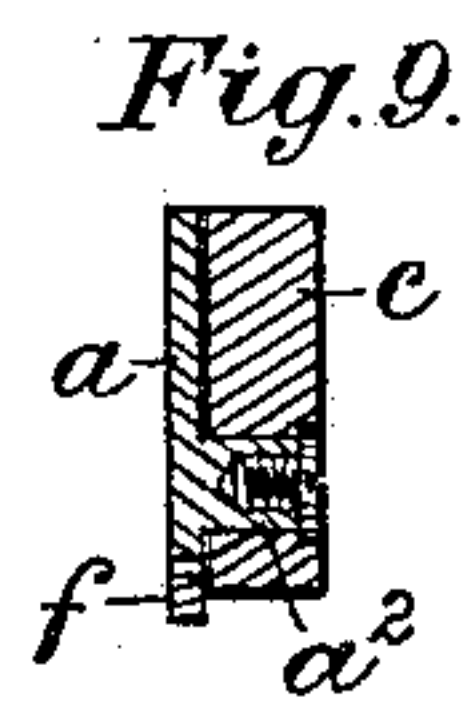
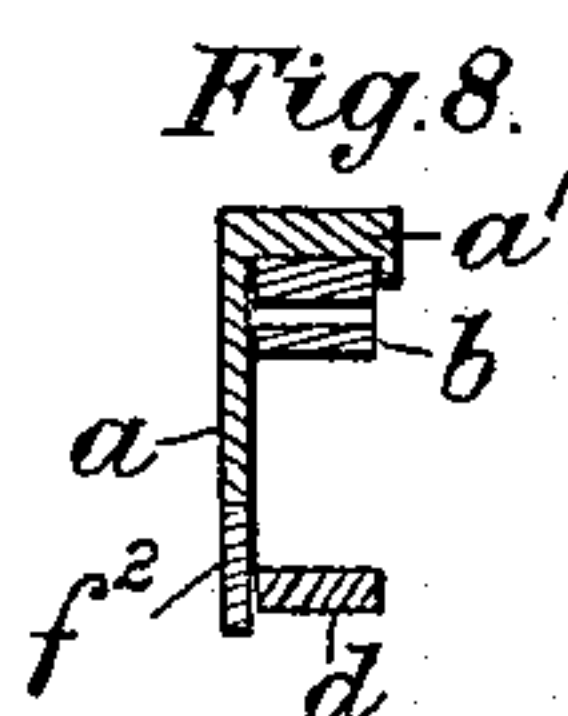
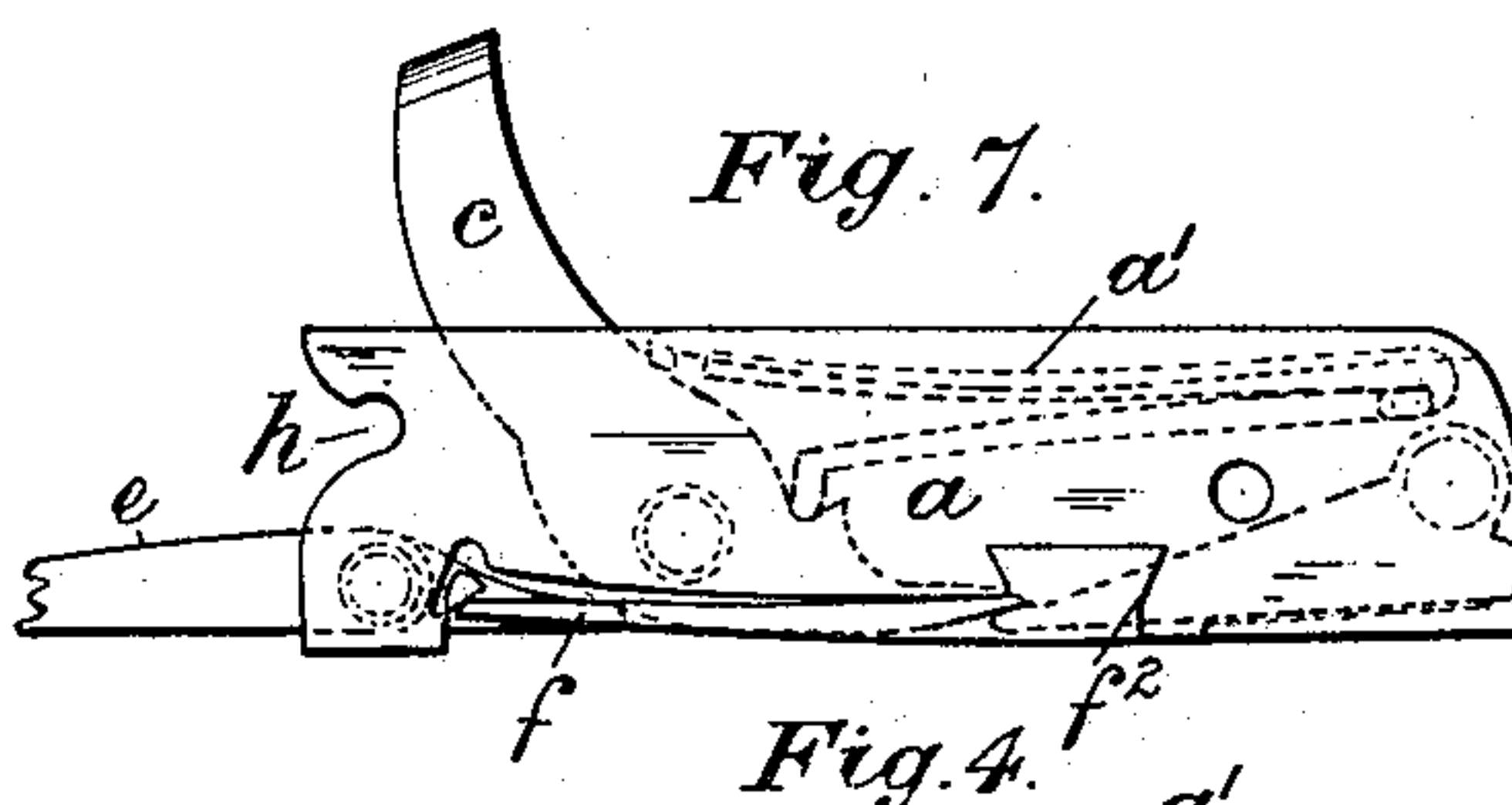
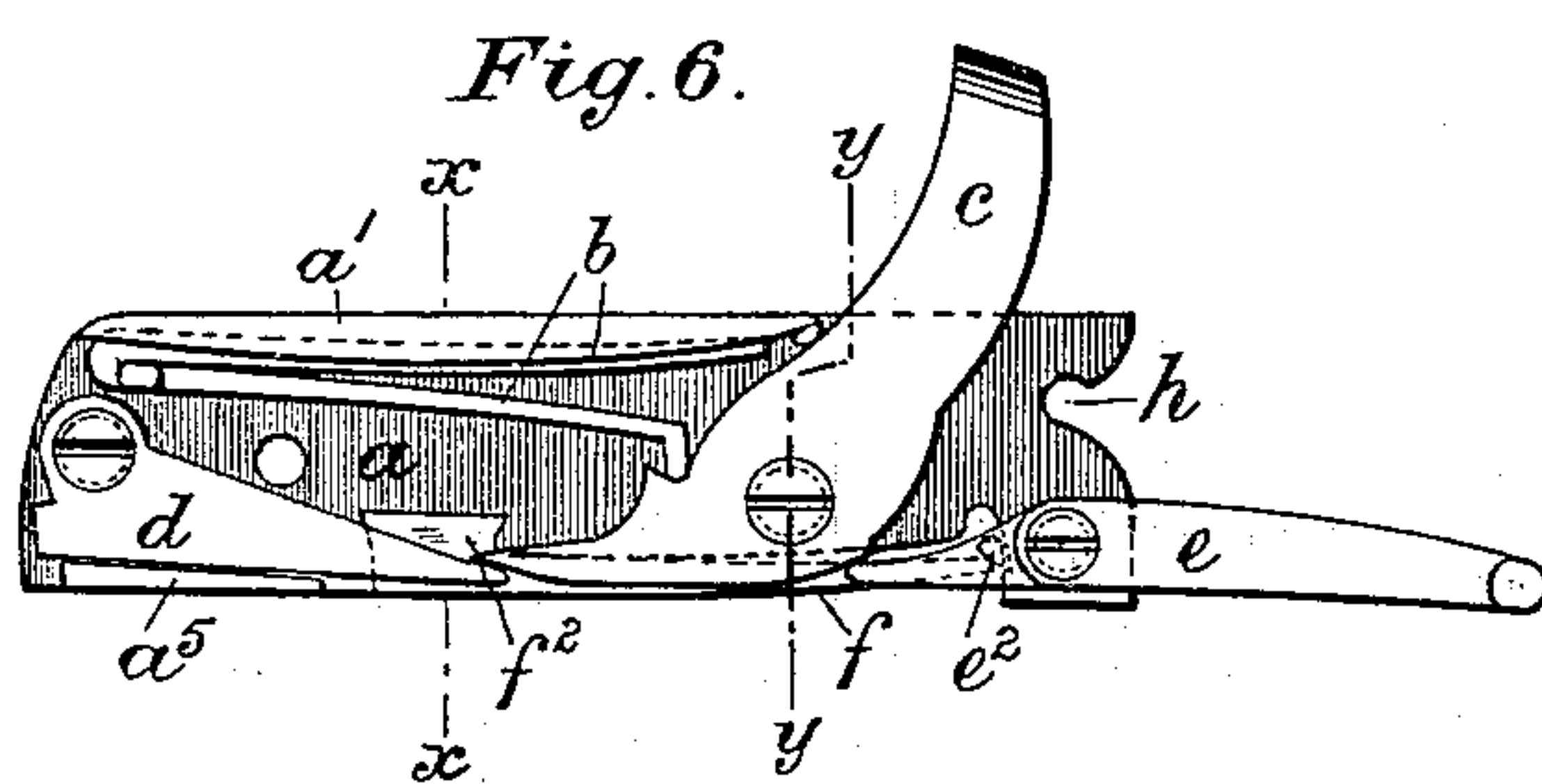
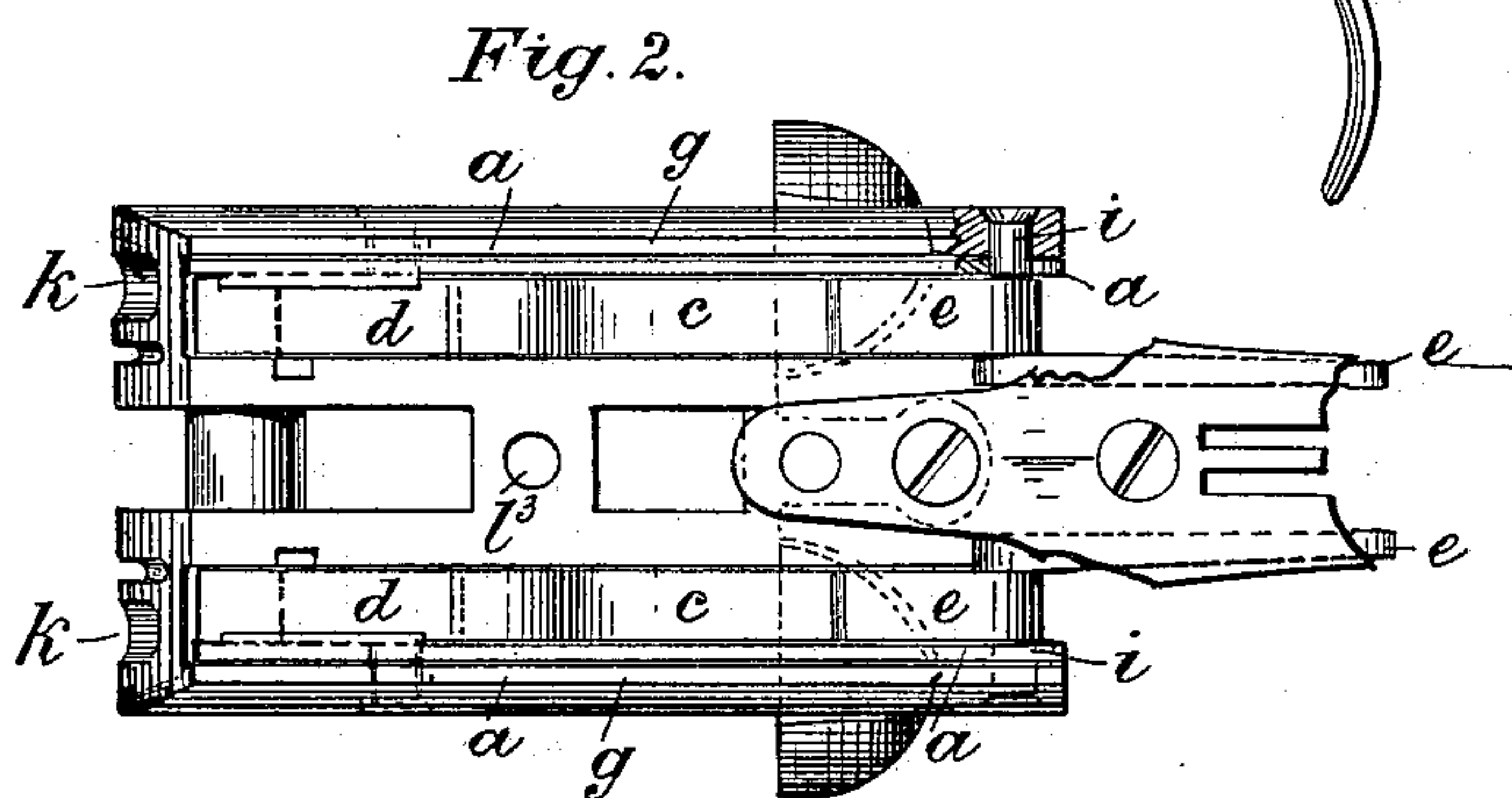
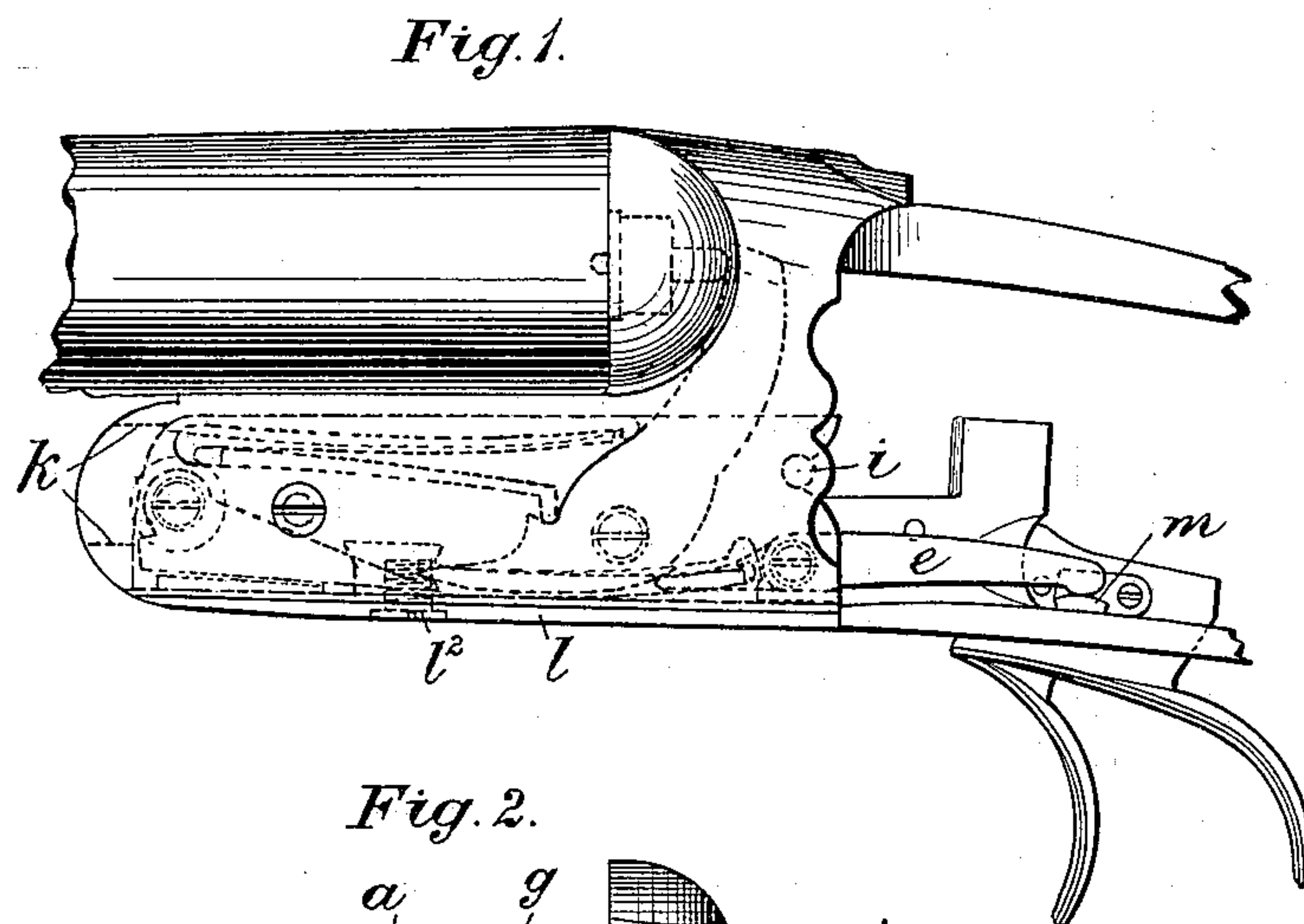
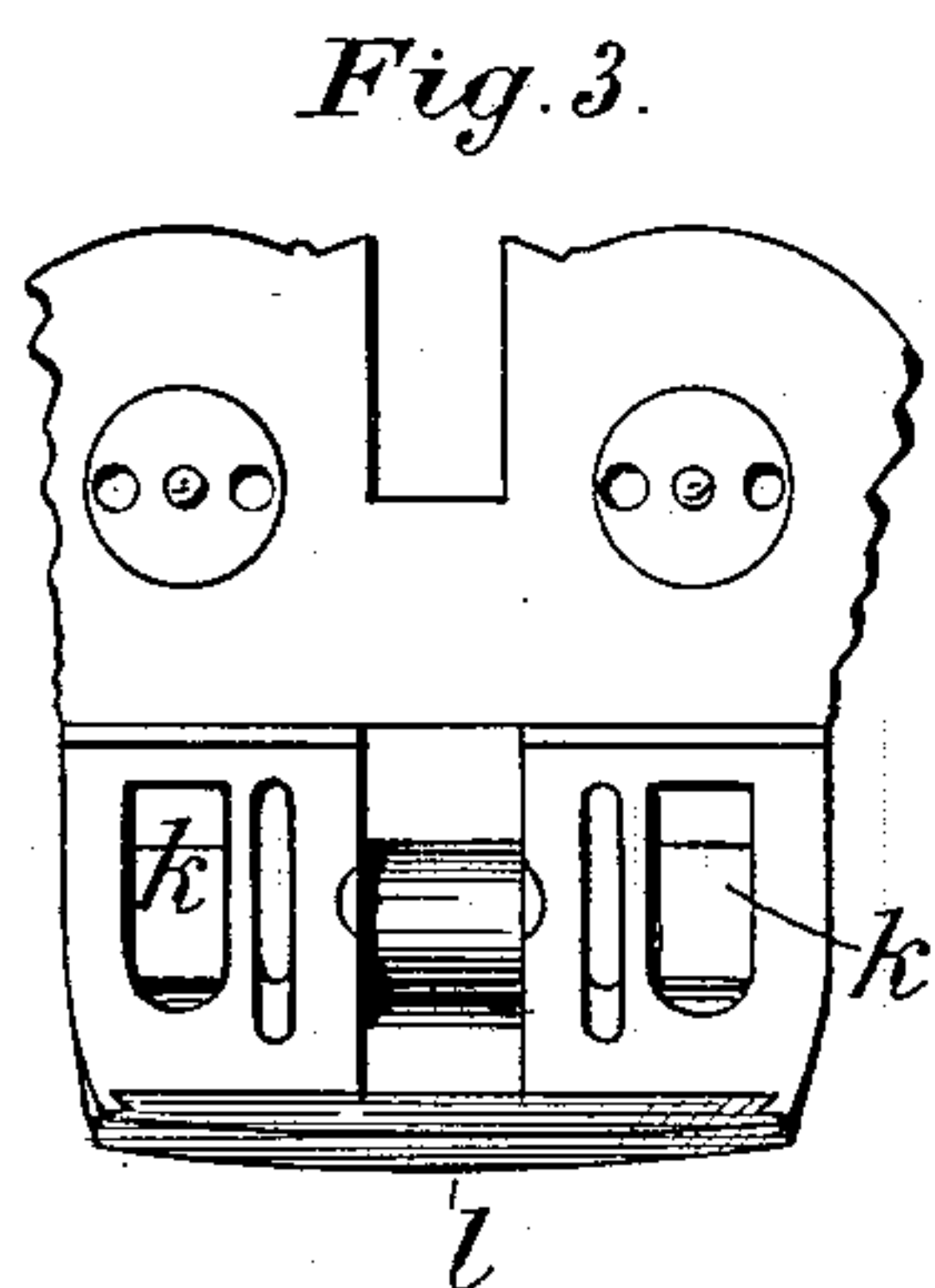
No. 612,313.

Patented Oct. 11, 1898.

J. DEELEY & L. B. TAYLOR.
REMOVABLE LOCK FOR FIREARMS.

(Application filed Feb. 12, 1898.)

(No Model.)



Witnesses;—

George Shaw

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JOHN DEELEY AND LESLIE BOWN TAYLOR, OF BIRMINGHAM, ENGLAND.

REMOVABLE LOCK FOR FIREARMS.

SPECIFICATION forming part of Letters Patent No. 612,313, dated October 11, 1898.

Application filed February 12, 1898. Serial No. 670,089. (No model.)

To all whom it may concern:

Be it known that we, JOHN DEELEY and LESLIE BOWN TAYLOR, subjects of the Queen of Great Britain, residing at Birmingham, England, have invented new and useful Improvements in Drop-Down Breech-Loading Guns and Small-Arms, of which the following is a specification.

Our invention consists of the improvements hereinafter described in drop-down breech-loading guns and small-arms, principally of the Anson and Deeley type, in which the gun or small-arm is cocked on the raising of the barrels by arms or dogs on the fore-end acting upon cockers or lifters in the body and the latter upon the hammers, the improvements constituting our invention having for their object to facilitate the removal of the lock mechanism of the said guns and small-arms for cleaning or repair.

In order that our invention may be the better understood, we remark that the hammers, sears, and cockers or lifters of guns and small-arms of the Anson and Deeley type are secured in position by and turn on pins or pivots crossing the body of the gun from side to side, and when it is wished to remove the lock mechanism of the gun for cleaning or repair it is necessary to withdraw the said pins, and thereby to disarrange and separate the various parts of the lock mechanism. By the use of our invention the said lock mechanism is made capable of ready removal and replacement without the use of special tools. Further, the lock mechanism is removed as a whole—that is, without the separation of its individual parts.

We will describe our invention in connection with an Anson and Deeley double-barrel gun or small-arm; but we wish it to be understood that our invention is applicable to other guns and small-arms of a similar type.

According to the improvements constituting our invention we arrange the several parts of the lock mechanism at each side of the gun on a detachable plate, which plates are fitted into slots in the body of the gun, the hammers, sears, and cockers or lifters being pivoted to pins, preferably made in one piece with the plates, by which the said parts are carried. The rear end of the plate is provided with a semicircular notch or depression

which engages with a stop-stud on the side of the slot in the body. The plates are secured in position and the body of the gun made practically dust and water proof by the bottom or cover-plate of the said body of the gun, the said cover-plate being secured by a screw taking into the body. It is hence only necessary to withdraw the said screw in order to permit of the removal of the bottom cover-plate, when the lock mechanism may be wholly detached from the gun for cleaning or repair and afterward replaced and fixed in position by the fixing of the bottom cover-plate by the screw described.

Figure 1 of the accompanying drawings represents, in side elevation, the breech end of an Anson and Deeley double-barrel gun containing our improvements. Fig. 2 is a plan of under side of the same. Fig. 3 is a front elevation of the body of the said gun. The barrels of the gun are omitted in Figs. 2 and 3. Figs. 4 and 5 represent, in side elevation and plan of under side, respectively, one of the lock-mechanism-carrying plates (with sear-spring attached) separately; and Figs. 6 and 7 represent elevations at opposite sides of one of the lock-mechanism-carrying plates with the lock mechanism in position on the said plate. Figs. 8 and 9 are cross-sections taken, respectively, on the dotted lines xx and yy , Fig. 6.

The same letters of reference indicate the same parts in the several figures of the drawings.

aa are the detachable lock-mechanism-carrying plates, each plate a having at top the overhanging ledge or flange a' , against the under side of which the fixed branch of the mainspring b takes a bearing. (See Figs. 1, 6, and 7.) On the bottom edge of the detachable lock-carrying plate a a projection or stop a^5 is provided to prevent the cocker or lifter d from moving too far or going beyond its proper position or to maintain it in position when the lock is removed from the body. The said plate a also has in one piece with it the pins or studs $a^2 a^3 a^4$, on which the hammer c , lifter or cocker d , and sear e are respectively fitted and turn. The said pins $a^2 a^3 a^4$ are preferably hollow and internally screw-threaded, the screws for fixing the hammer c , lifter or cocker d , and sear e taking in

the hollow screws, the heads of the screws taking in depressions in the hammer, lifter, and sear and lying flush with the outer side of the said hammer, lifter, and sear, as will be understood by reference to the fixing of the hammer *c* in Fig. 9. The sear-spring *f* is preferably fitted by a dovetail joint *f*² to the lock-mechanism-carrying plate *a*, a side pin *e*² on the sear *e* projecting into an opening in the lock-mechanism-carrying plate and bearing on the acting end of the said sear-spring *f*.

The detachable lock-mechanism-carrying plates *a a*, with their lock mechanism, are passed into the slots *g g* (see Fig. 2) at opposite sides of the body of the gun, the position of the said lock-carrying plates being determined by notches *h h* in the rear ends of the lock-mechanism-carrying plates *a*, bearing against or engaging with stop-pins *i i*, projecting into the slots *g g* in the said body. The said lock-mechanism-carrying plates *a* are preserved in place by the bottom or cover plate *l*, which preferably slides in dovetail grooves in the sides of the body of the gun (see Fig. 3) and is fixed by the screw *l*² (indicated in dotted lines in Fig. 1) taking into the screwed hole *l*³ (see Fig. 2) in the body of the gun.

The front or knuckle end of the body has large slots or openings *k k*, through which the dogs on the fore-end project for operating the lifters or cockers *d d* on the opening of the gun.

The sear *e* is without the ordinary right-angled projection at its tail end in order that the locks may be readily placed in position in the body, and a stud *m* (see Fig. 1) is formed on or secured to the trigger-blade to operate the sear in the usual way.

From the description hereinbefore given it will be understood that when it is desired to withdraw the lock mechanism for cleaning or repair it is only necessary to withdraw the screw *l*² and take the bottom or cover plate *l* by a sliding motion from the body of the gun,

when the lock-mechanism-carrying plates *a* may be withdrawn from the slots *g g* and from engagement with the stop-pins *i i*, the said plates *a* bringing with them the whole of the lock mechanism in an undisturbed condition. After the cleaning or repair the lock mechanism may be as readily replaced.

The application of our improvements to drop-down breech-loading guns and small-arms of a similar type to the Anson and Deeley gun differs in no essential respect from its application to an Anson and Deeley gun as hereinbefore described and illustrated.

Having now described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination with a longitudinally-slotted gun-body, of opposite plates slidable into the slotted part of the gun-body and carrying the lock mechanism, substantially as described.

2. The combination with a gun-body having opposite longitudinal slots, of opposite plates detachably fitted in said slots and each plate carrying locking mechanism, comprising a hammer *c*, a sear *e*, a mainspring *b* and a pivoted cocker or lifter *d* extending under the tail end of the hammer, substantially as described.

3. The combination with a gun-body having opposite longitudinal slots, of opposite plates slidable into said slots, each plate carrying a hammer *c*, a sear *e*, a mainspring *b* and a pivoted cocker or lifter *d*, and each plate having a top overhanging flange *a'* constituting a mainspring-bearing, and a bottom projection or stop *a*⁵ against which the cocker or lifter is adapted to rest, substantially as described.

In witness whereof we have hereunto set our hands in presence of two witnesses.

JOHN DEELEY.

LESLIE BOWN TAYLOR.

Witnesses:

GEORGE SHAW,

RICHARD SKERRETT.