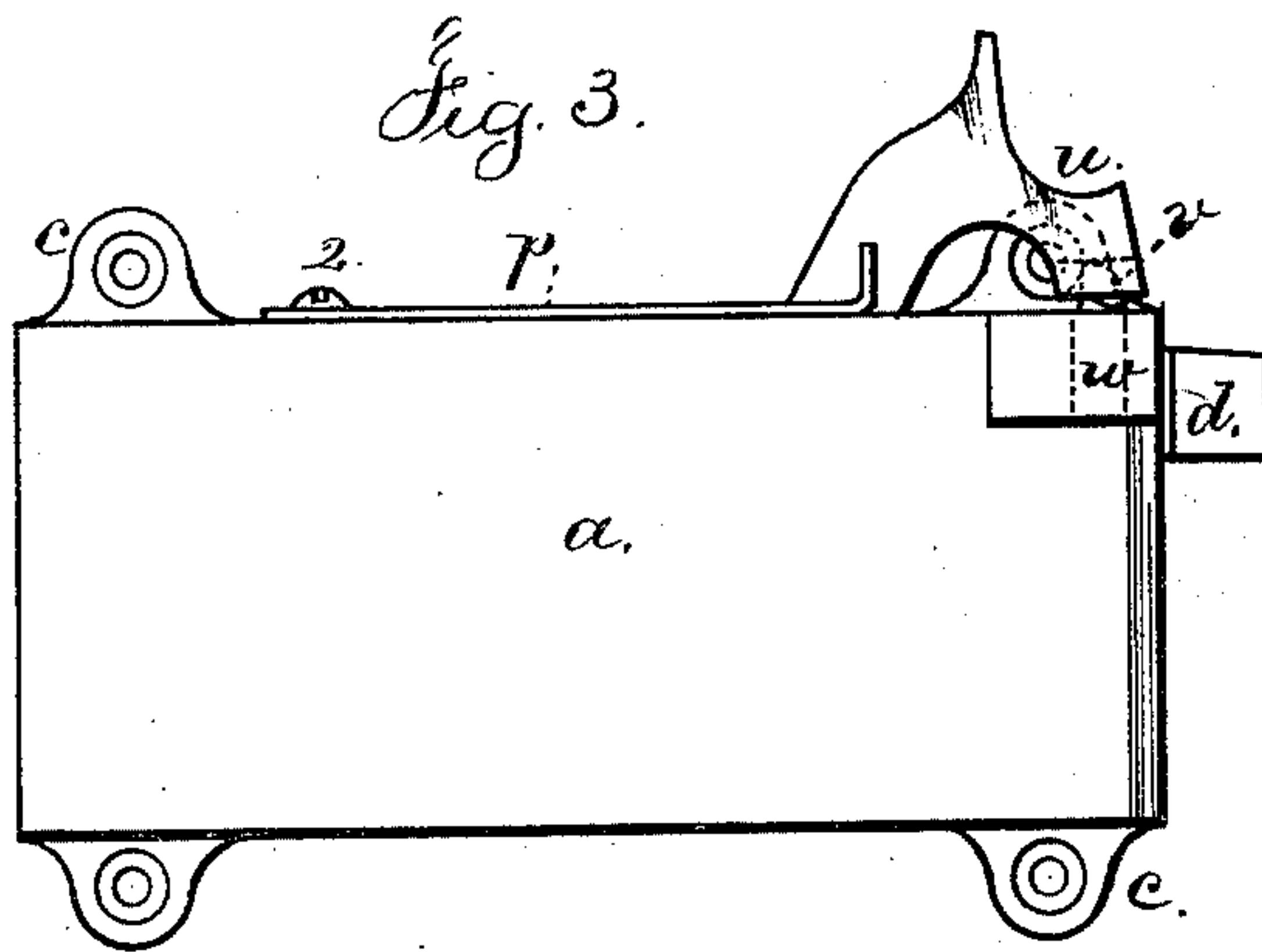
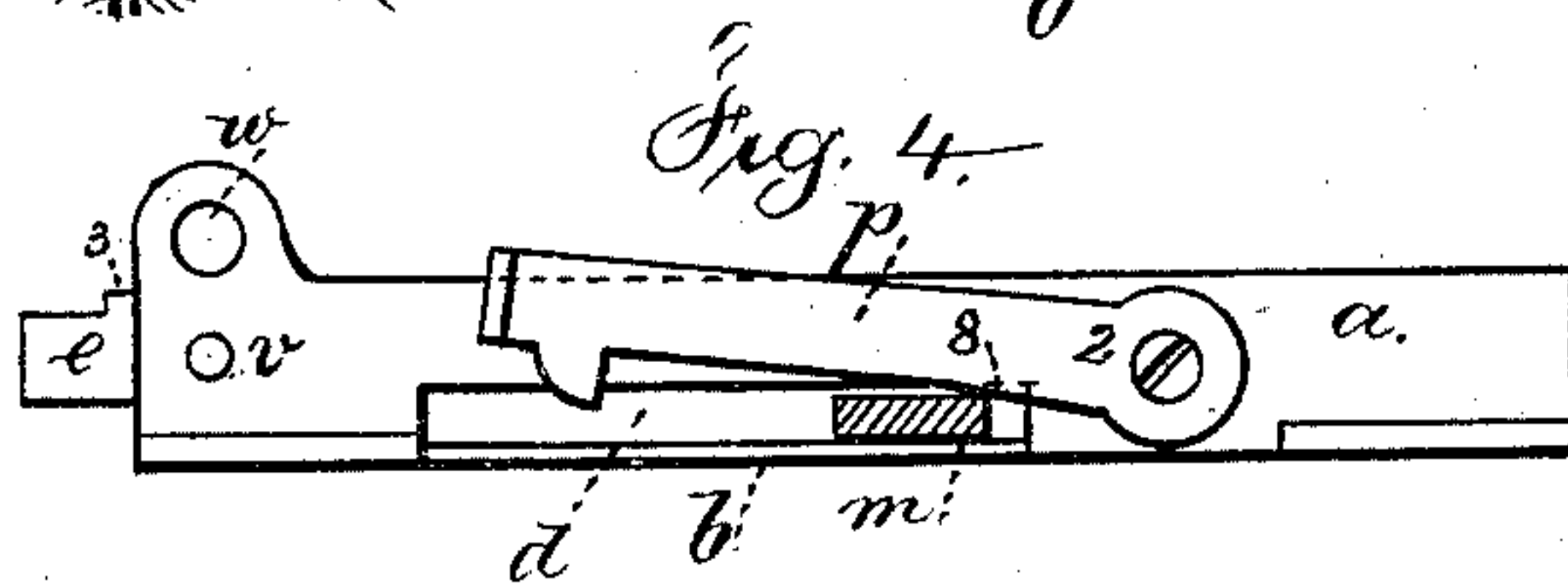
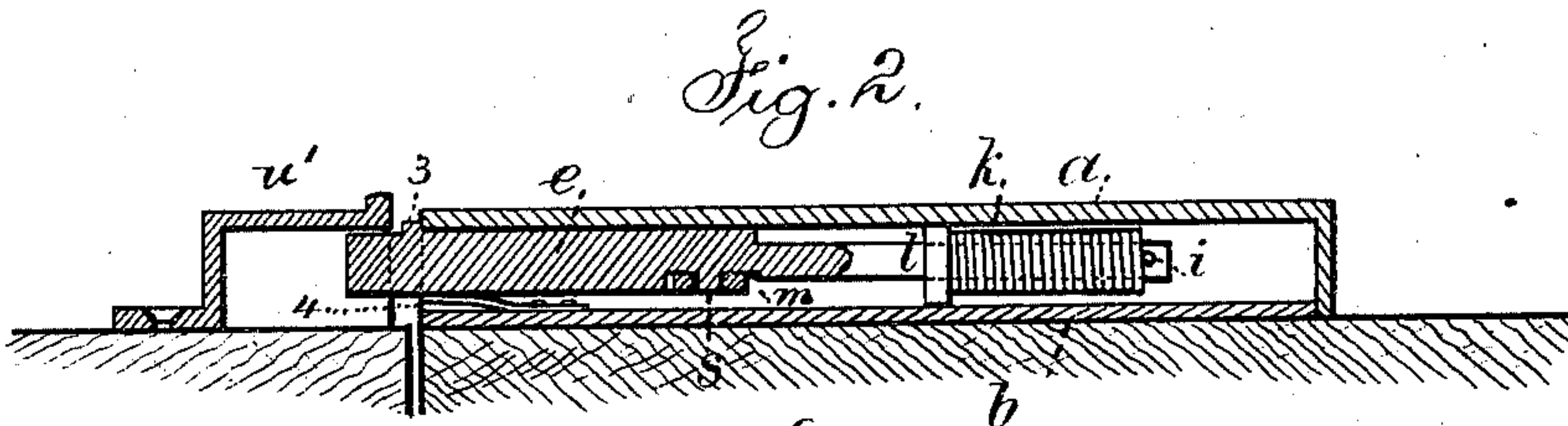
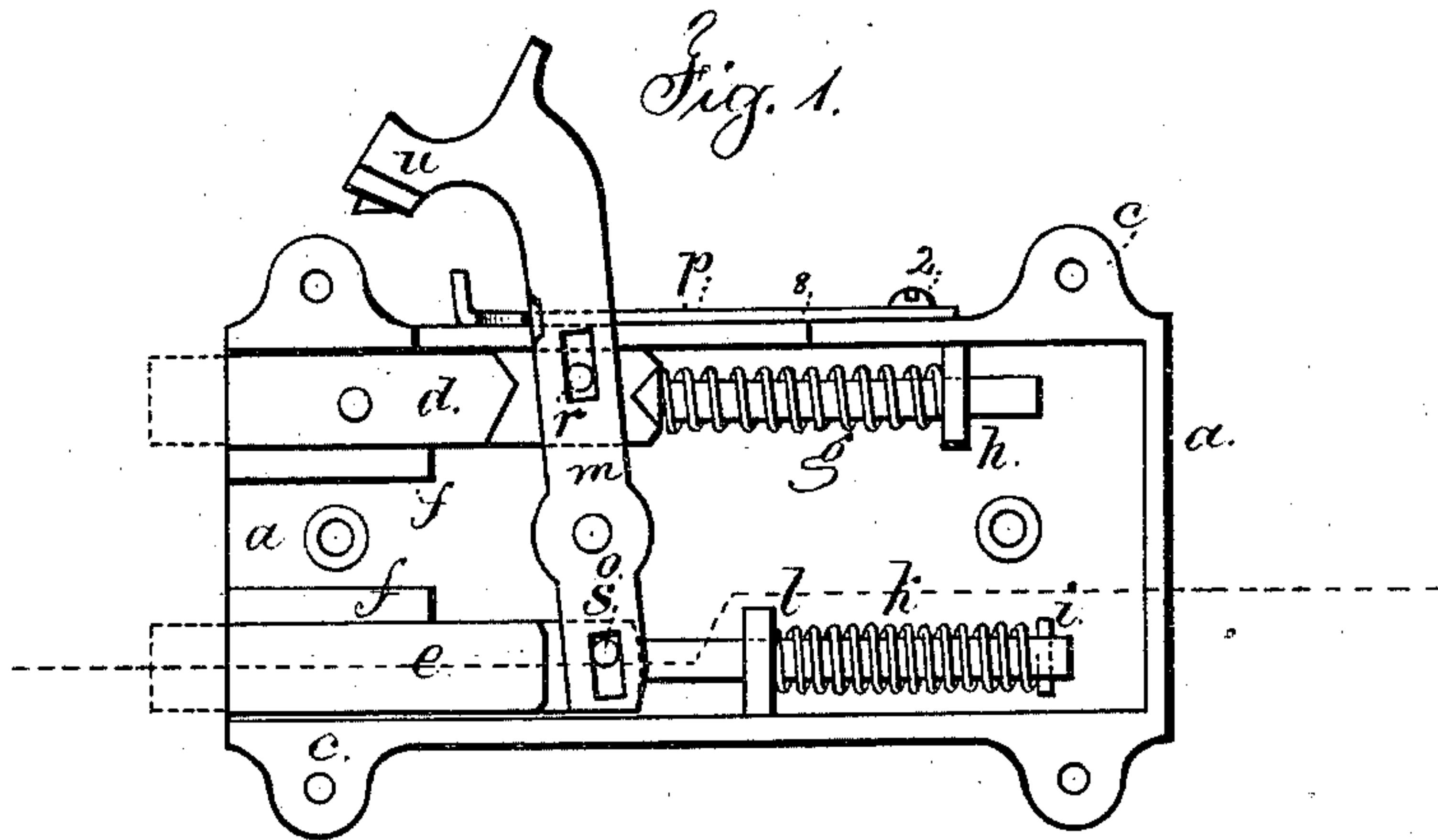


S. POOLE.
Alarm-Bolt.

No. 223,384.

Patented Jan. 6, 1880.



Witnesses

Chas. H. Smith
Geo. J. Pinckney

Inventor

Samuel Poole.
per Lemuel W. Perrell atty

UNITED STATES PATENT OFFICE.

SAMUEL POOLE, OF BROOKLYN, NEW YORK.

ALARM-BOLT.

SPECIFICATION forming part of Letters Patent No. 223,384, dated January 6, 1880.

Application filed December 3, 1879.

To all whom it may concern:

Be it known that I, SAMUEL POOLE, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Alarm-Bolts, of which the following is a specification.

The object of this invention is to explode a cap or cartridge in case an effort is made to force open a door or window, and at the same time project a bolt that so firmly secures the parts that they cannot be opened without breaking the parts, as such bolt is entirely independent of any external connection. When not in use the alarm occupies an intermediate position, and is not acted upon in opening or closing the door or window.

In the drawings, Figure 1 is an elevation with the cap removed. Fig. 2 is a sectional plan of the latch-bolt; and Fig. 3 is an elevation of the alarm after it has been discharged.

The case *a* is made in the form of a box, with a plate, *b*, somewhat like a lock-case, and it is secured to the door, the window-frame, or the sash by bolts or screws at *c c*.

The bolts *d* and *e* are set to slide endwise between supports *f* in the case *a*, and the spring *g* acts between the bolt *d* and the guide *h* to project the same, and the spring *k* acts between the guide *l* and the pin *i* of the spring-bolt *e*, to draw the same into the lock-case.

The two bolts are connected by the hammer-lever *m*, that is upon the pivot *o*, and provided with mortises, receiving the pins *r* and *s* upon the respective bolts *d e*. The upper end of this lever *m* is provided with a hammer-head, *u*, adapted to explode a percussion-cap upon the nipple *v* or a blank or other cartridge in the barrel *w*.

There is a latch-plate, *p*, upon the fulcrum 2, at the top of the case *a*. This is located so as to hold the hammer centrally in the position indicated in Fig. 1, with the ends of both bolts within or on line with the end of the case *a*. If, now, the hammer *m* is drawn back, the lower bolt, *e*, is projected and the offset

or shoulder 3 upon the same is forced by the spring 4 over the edge of the case, and thereby the parts are held in position with the springs strained. The same movement pushes back the latch *p* by the side of the hammer-lever acting upon the inclined surface 8 of such latch *p*, as seen in the plan, Fig. 4. If, now, the door or window is forced and moved, the bolt *e*, being confined at its head in the nosing *u'* of the alarm, is unlatched at 3, and the springs *g* and *k* retract the latch-bolt *e* and simultaneously project the bolt *d* into the nosing, so that the door is permanently bolted, and as the hammer *u* falls it explodes a cap placed upon the nipple *v* or a cartridge that may be placed in the barrel *w*.

It will be evident that with a door the catch 3 of the bolt *e* is to be at its inner face, but with a window-sash it should be upon the upper face of such bolt, so as to be unlatched by the motion of the sash.

When the alarm is to be thrown out of action, the hammer is to be grasped, the door or window slightly moved to liberate the latch-shoulder 3, and the lock set at the half against the hook of the latch *p*, so that both bolts *d e* are out of the way in opening and closing the door or window.

I claim as my invention—

1. The combination, in an alarm, of two bolts, their actuating-springs, a lever connecting such bolts and having a hammer-head to explode a cap or cartridge, and a catch or shoulder, 3, to retain the parts when set, substantially as set forth.

2. The latch *p*, pivoted at 2, and provided with an incline, 8, in combination with the hammer-lever *m* and the bolts *d* and *e*, substantially as set forth.

Signed by me this 25th day of July, A. D. 1878.

SAMUEL POOLE.

Witnesses:

GEO. T. PINCKNEY,
CHAS. H. SMITH.