

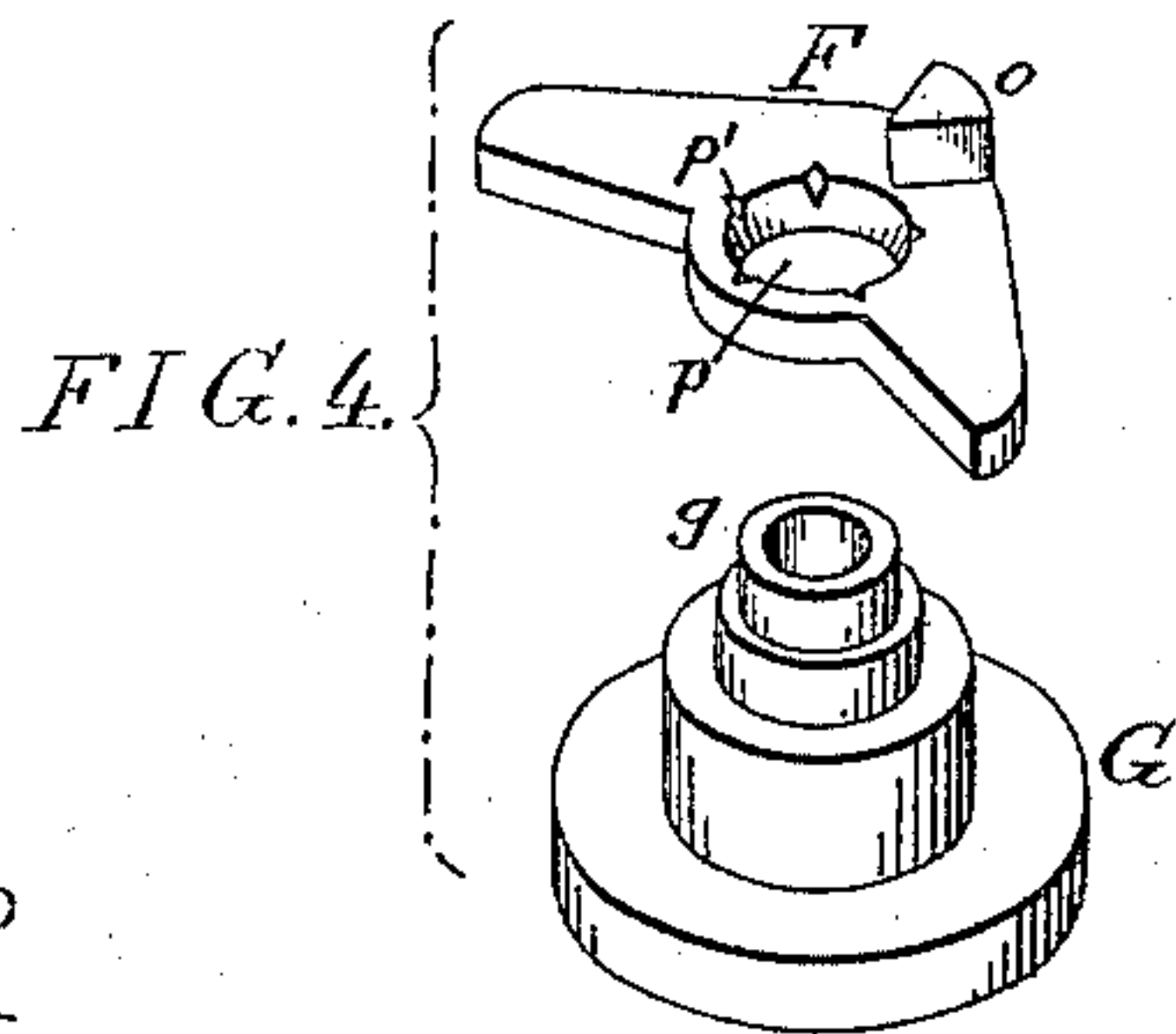
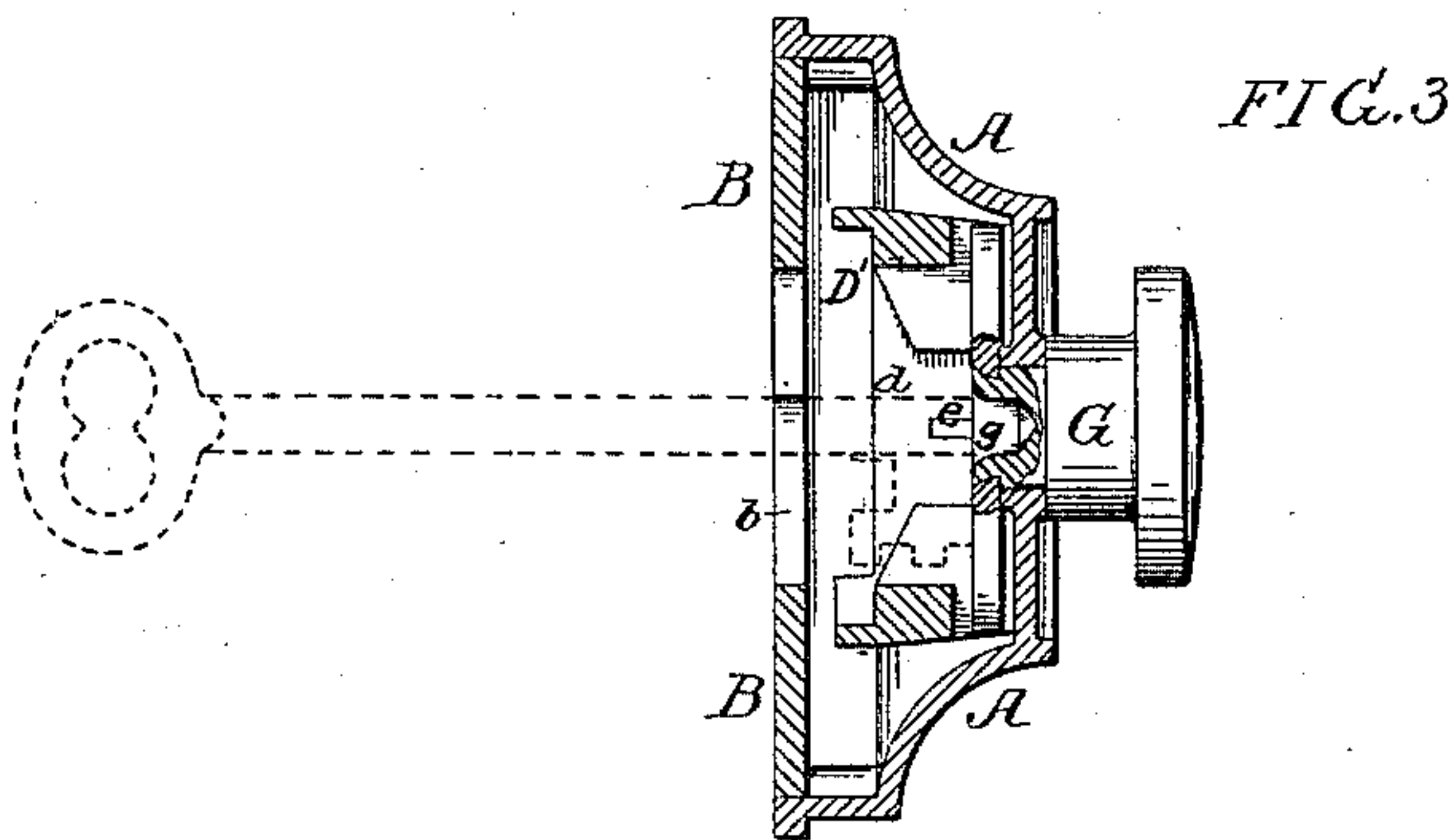
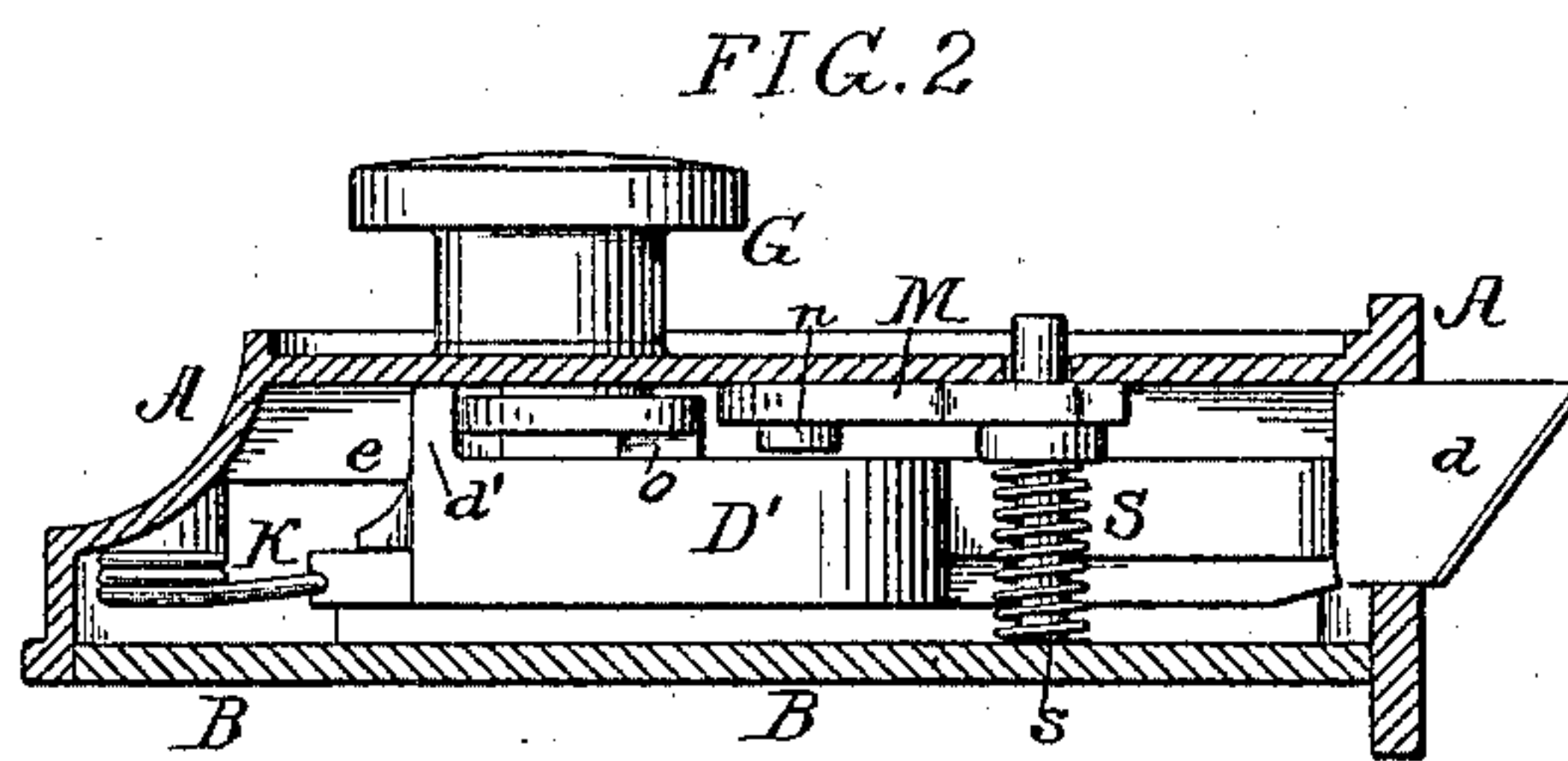
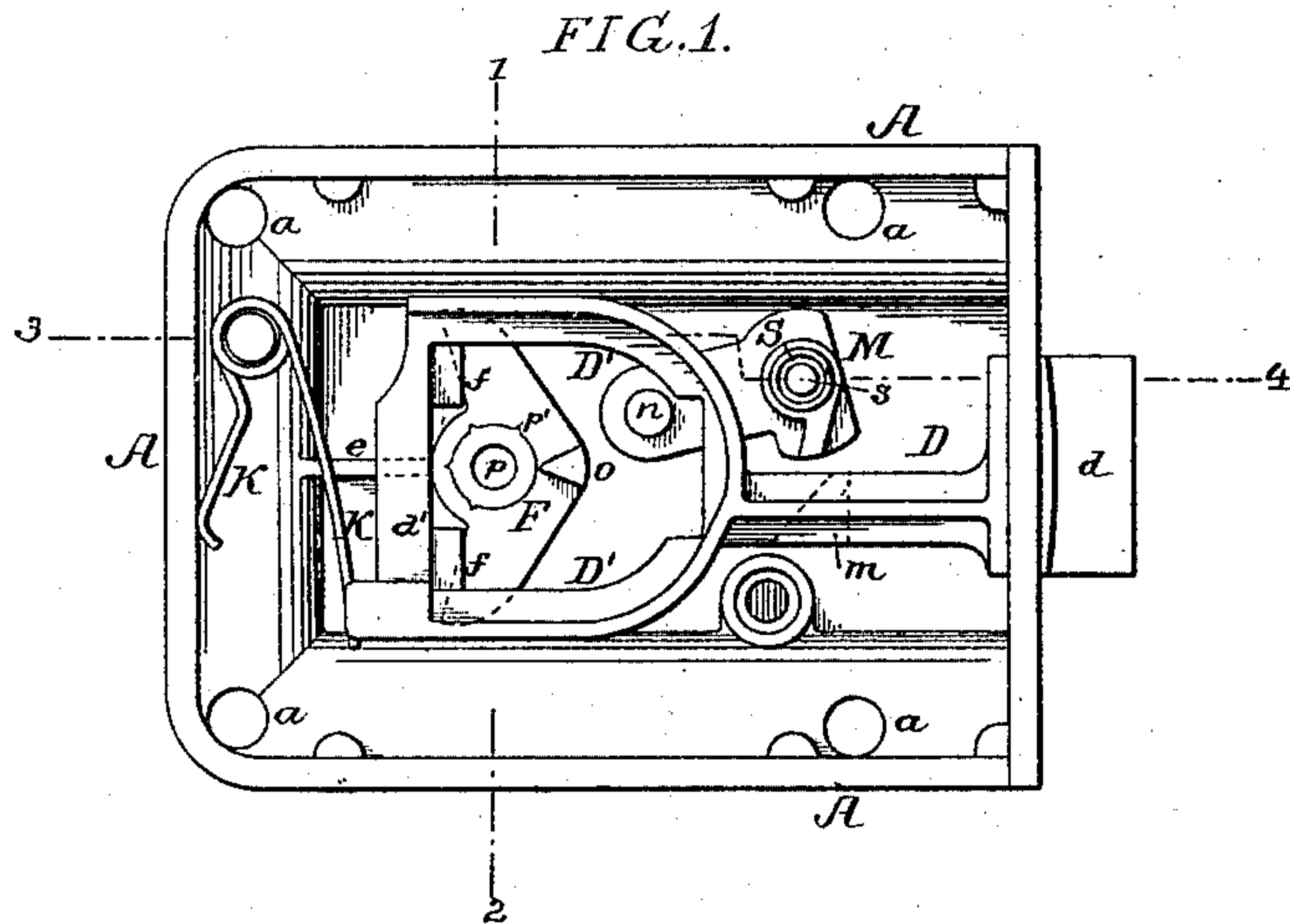
(No Model.)

S. W. BUDD.

LATCH LOCK.

No. 328,875.

Patented Oct. 20, 1885.



Witnesses—
William F. Davis
James F. Tobin—

Inventor—
Samuel W. Budd—
by his Attorneys—
Howson & Sons

UNITED STATES PATENT OFFICE.

SAMUEL W. BUDD, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
HIMSELF AND HENRY BUDD, OF SAME PLACE.

LATCH-LOCK.

SPECIFICATION forming part of Letters Patent No. 328,875, dated October 20, 1885.

Application filed September 8, 1885. Serial No. 176,470. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL W. BUDD, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Latch-Locks, of which the following is a specification.

My invention consists of certain improvements in the construction of latch-locks, as fully described hereinafter.

10 In the accompanying drawings, Figure 1 is a face view of the lock with the inner cover-plate removed. Fig. 2 is a sectional plan view on the line 3 4, Fig. 1. Fig. 3 is a transverse section on the line 1 2, Fig. 1; and Fig. 4 is a
15 perspective view of two parts of the lock detached.

A is the case of the lock, which may be of any suitable configuration, and provided with the usual openings, *a*, for the passage of the
20 screws by which the lock is to be secured to the door. This case is provided with the usual detachable inner face-plate, B, Figs. 2 and 3, which has the usual key-hole, *b*.

D is the bolt of the lock, having a beveled
25 nose, *d*, which, under the action of a spring, K, normally projects through a slot in the end of the case A, as shown in Figs. 1 and 2, the nose being guided in this slot. The rear end of the bolt is made in the form of a yoke, D', the cross-piece *d'* of which is notched on the
30 under side for the reception of a guide-flange, *e*, on the inner face of the case A. The under side of the yoke D' is provided with two projections, *f*, to be acted on by the arms of a lever, F, which is secured to and carried by the
35 stem *g* of the knob G, the latter being on the outside of the lock, while its stem projects through the case to the interior. The lever F is secured to the stem of the knob G in a manner
40 which will be understood on reference to Figs. 3 and 4. The stem *g* of the knob is made tubular, and is inserted in a beveled opening, *p*, in the lever F, which beveled opening is provided with notches or projections *p'*, and
45 by means of a suitable tool the tubular end of the stem *g* is expanded outward, so as to practically rivet it to the lever F, as shown in Fig. 3. I utilize this opening in the end of the stem G as a seat for the stem of the key, as

illustrated in Fig. 3, the bit of the key en- 50
gaging with a projection, *o*, on the lever F, to operate the latter and the bolt D.

The bolt D is provided with the usual projection, *m*, shown by dotted lines in Fig. 1, with which engages the retaining-catch M, 55
loosely pivoted to a pin, *n*, on the inner face of the case A.

In order to prevent the catch M from jumping off its pivot-pin without requiring any riveting, the yoke D' is made of such a character as to extend over the pivoted end of the catch M, as shown in Figs. 1 and 2. 60

Instead of having the usual curved spring to act on the catch-lever M, to hold the latter by friction in any position to which it may be moved, I provide the said catch-lever with a stem, *s*, carrying a spiral spring, S, the outer end of which bears against the inner face-plate, B, as shown in Fig. 2. 65

I claim as my invention—

1. The combination of a bolt of a latch-lock with an operating-lever having an opening with notches or projections and a knob provided with a tubular stem adapted to the opening in the lever, substantially as described. 70
2. The combination of the bolt and an operating-lever having an opening with a knob having a tubular stem adapted to the opening in the lever to secure the latter, the tubular portion of the said stem forming a seat for the key, substantially as described. 80

3. The combination of the bolt of a lock with a pivoted catch therefor, the said bolt having a yoke extending over the pivot of the catch to retain it in place, substantially as described. 85

4. The combination of the bolt of the lock and casing therefor with a movable catch-lever, M, having a stem, *s*, provided with a spiral friction-spring, S, bearing against the face of the latter to retain the catch-lever in the positions to which it may be moved. 90

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

SAMUEL W. BUDD.

Witnesses:

WILLIAM F. DAVIS,
HARRY SMITH.