

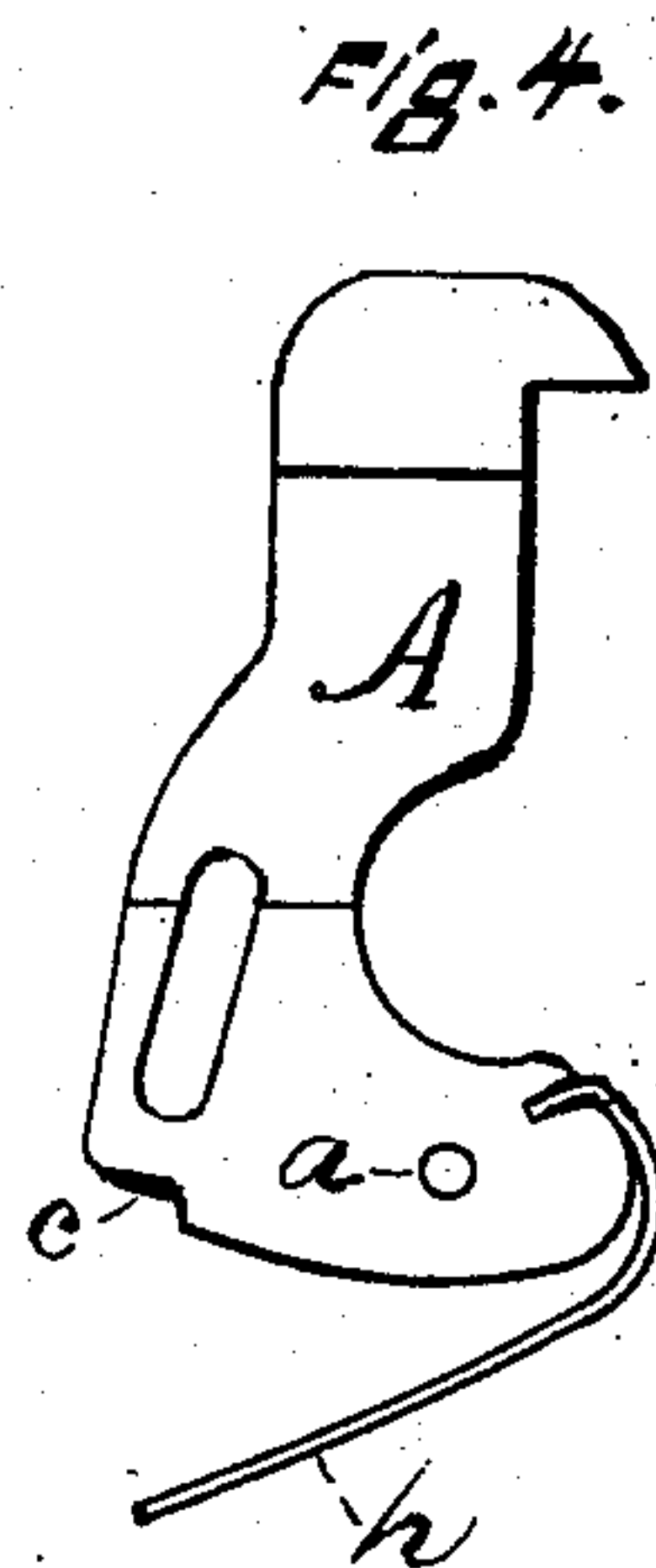
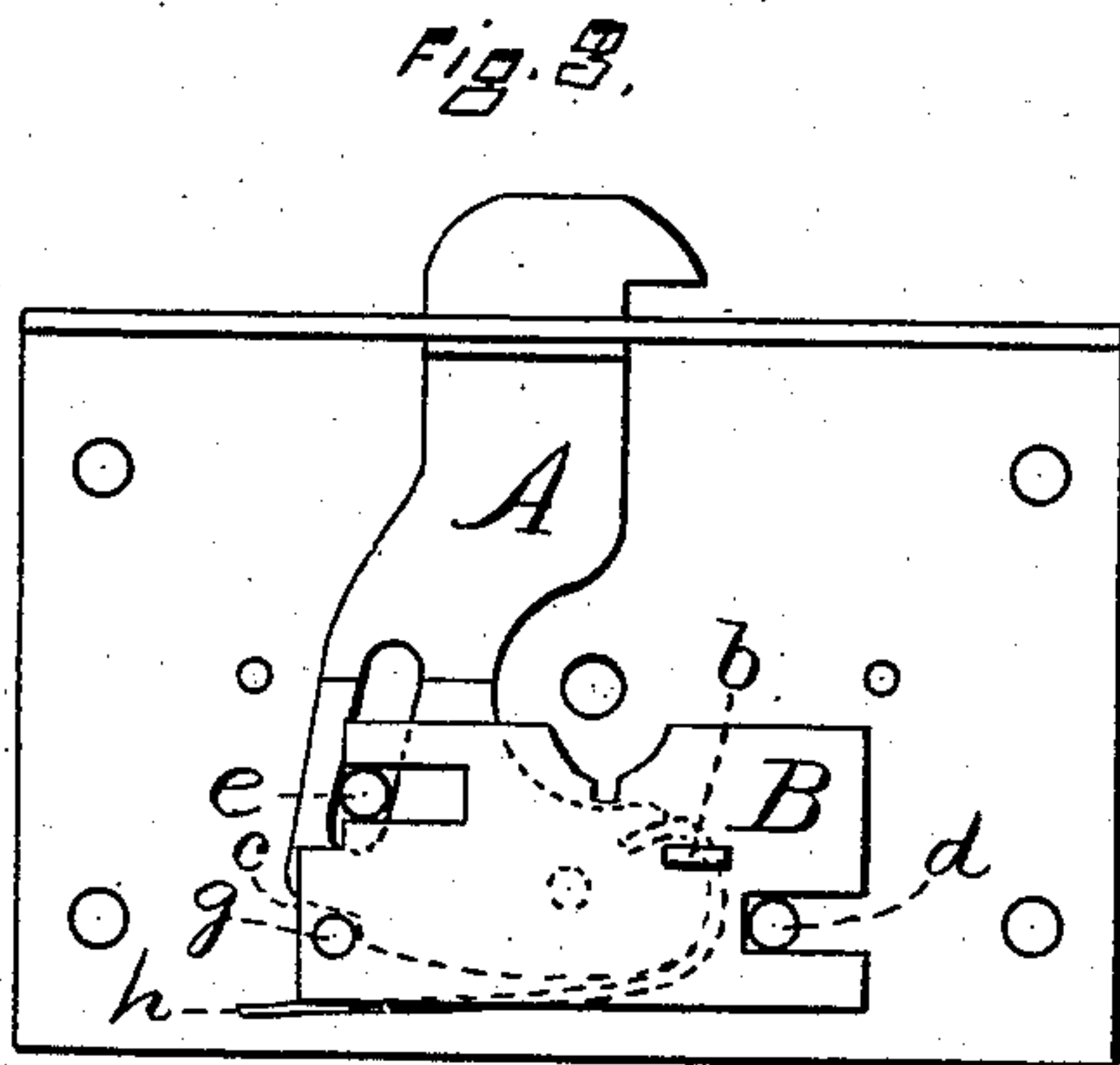
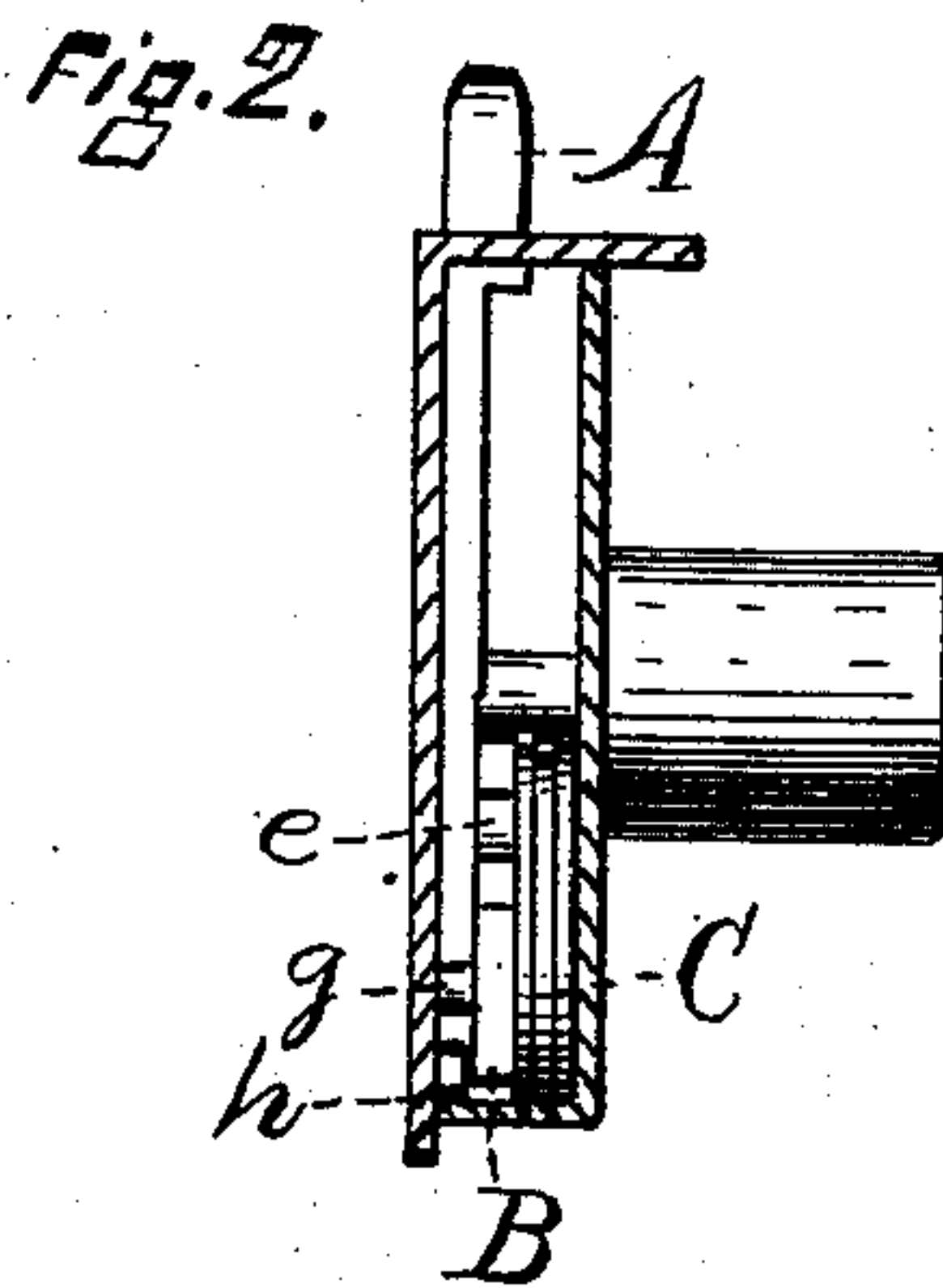
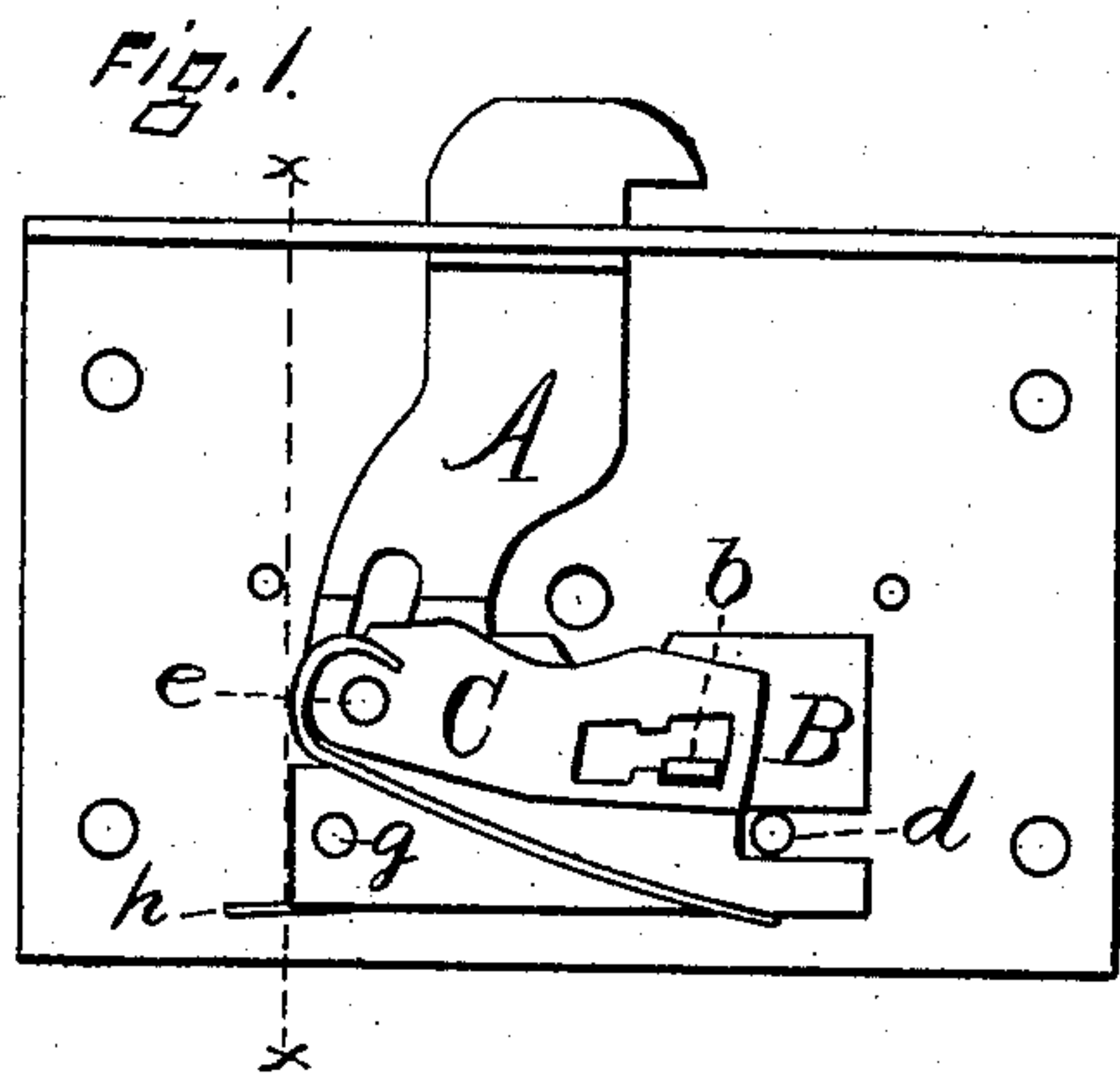
(Model.)

F. W. MIX.

LOCK.

No. 281,713.

Patented July 24, 1883.



Witnesses,
John Edwards Jr.
Martin A Pond

Inventor,
Frank W. Mix.
By James Shepard
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UNITED STATES PATENT OFFICE.

FRANK W. MIX, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE
CORBIN CABINET LOCK COMPANY, OF SAME PLACE.

LOCK.

SPECIFICATION forming part of Letters Patent No. 281,713, dated July 24, 1883.

Application filed April 19, 1883. (Model.)

To all whom it may concern:

Be it known that I, FRANK W. MIX, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Cabinet-Locks, of which the following is a specification.

My invention relates to improvements in cabinet-locks of that class which have a hooked bolt for use upon roller desks, chests, &c.; and the objects of my improvement are to adapt said lock for the use of a flat key and to make an economical and efficient lock. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of my lock with the slotted hub and cap removed, the parts being shown with the bolt in the locked position. Fig. 2 is a vertical section of the complete lock, partly in elevation, the plane section being indicated by the line *x x*, Fig. 1. Fig. 3 is a front elevation of parts of my lock, and Fig. 4 is a front elevation of the hooked bolt.

A designates a swinging and hooked bolt, which is pivoted to the lock-case upon a suitable pin at the pivot-hole *a*, Fig. 4. A spring, *h*, bears upon one of the sides of the lock-case with a constant tendency to hold this bolt in its position for locking. This bolt is in the form of an angle-lever, and is provided with a bearing-shoulder, *c*, Fig. 4, for engaging the locking-pin, hereinafter described. In front of the lower end of this bolt I arrange a longitudinally-moving bolt, B, which is guided by means of the pins or posts *d* and *e*. This bolt is adapted to be moved longitudinally by the key in the manner of an ordinary longitudinally-moving lock-bolt, and it is also provided with a set of tumblers, C, and fence *b*, which tumblers are pivoted upon the post or pin *e*, and operate in connection with the key and this longitudinally-moving part B in the ordinary manner of tumblers and lock-bolts. Upon one corner of this longitudinally-moving bolt

B is a locking-pin, *g*, which, when the bolt is thrown to the right, as shown in the drawings, comes under and engages the locking-shoulder *c* of the bolt A, so as to hold it positively in its locked position. When this sliding-bolt B is thrown to the left, this pin *g* is out from under the shoulder *c*, and thereby the bolt A is free to be turned into its position for unlocking under the influence of the key.

The lock is so constructed and the key so fitted that a sufficient movement of the longitudinal bolt B is imparted by the key to draw the locking-pin *g* out from under the locking-shoulder *c* before the key-bit acts upon the bolt A to swing it backward. As soon as the key is removed the bolt A snaps back into position for locking under the influence of its spring, and may then be used as a spring-lock. By the application of the key to move the longitudinally-sliding bolt B to the right again the bolt A is positively locked.

I claim as my invention—

1. The swinging bolt made in the form of an angle-lever, and provided with a locking-shoulder, *c*, and a suitable talon or edge against which the key acts, in combination with the longitudinally-moving bolt and locking-pin for engaging said locking-shoulder, said longitudinally-moving bolt also having a suitable talon, the talons of both bolts adapted for being acted upon by one and the same key, substantially as described, and for the purpose specified.

2. The combination of the swinging-bolt provided with the locking-shoulder *c* and spring *h*, the longitudinally-moving bolt B and the tumblers C, each of said three parts provided with suitable talons or edges for being acted upon by one and the same key, substantially as described, and for the purpose specified.

FRANK W. MIX.

Witnesses:

CHARLES PECK,
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