

J. W. Wells,

Alarm Lock.

No 21,457.

Patented Sep. 7, 1858.

Fig. 1

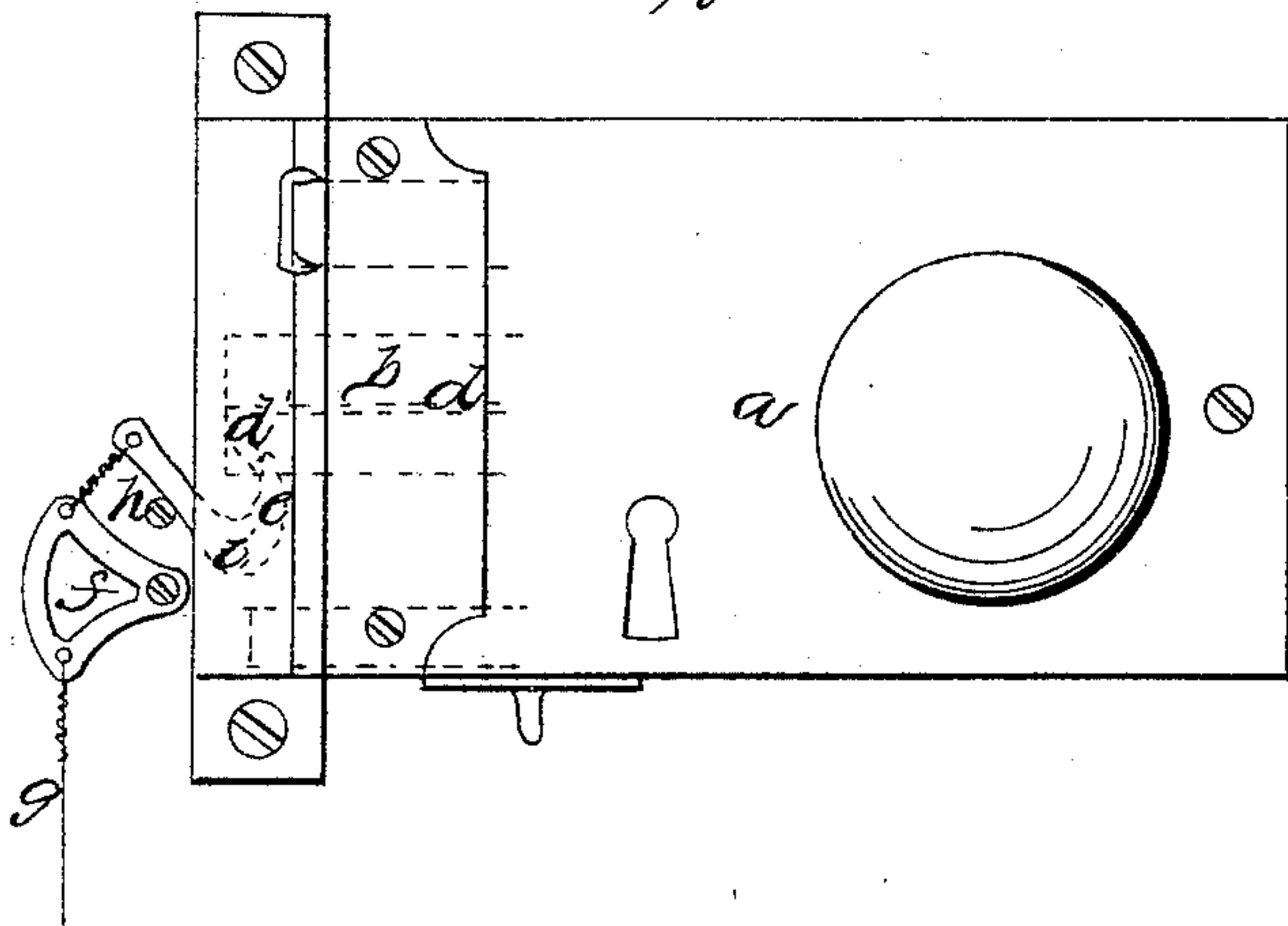


Fig. 2

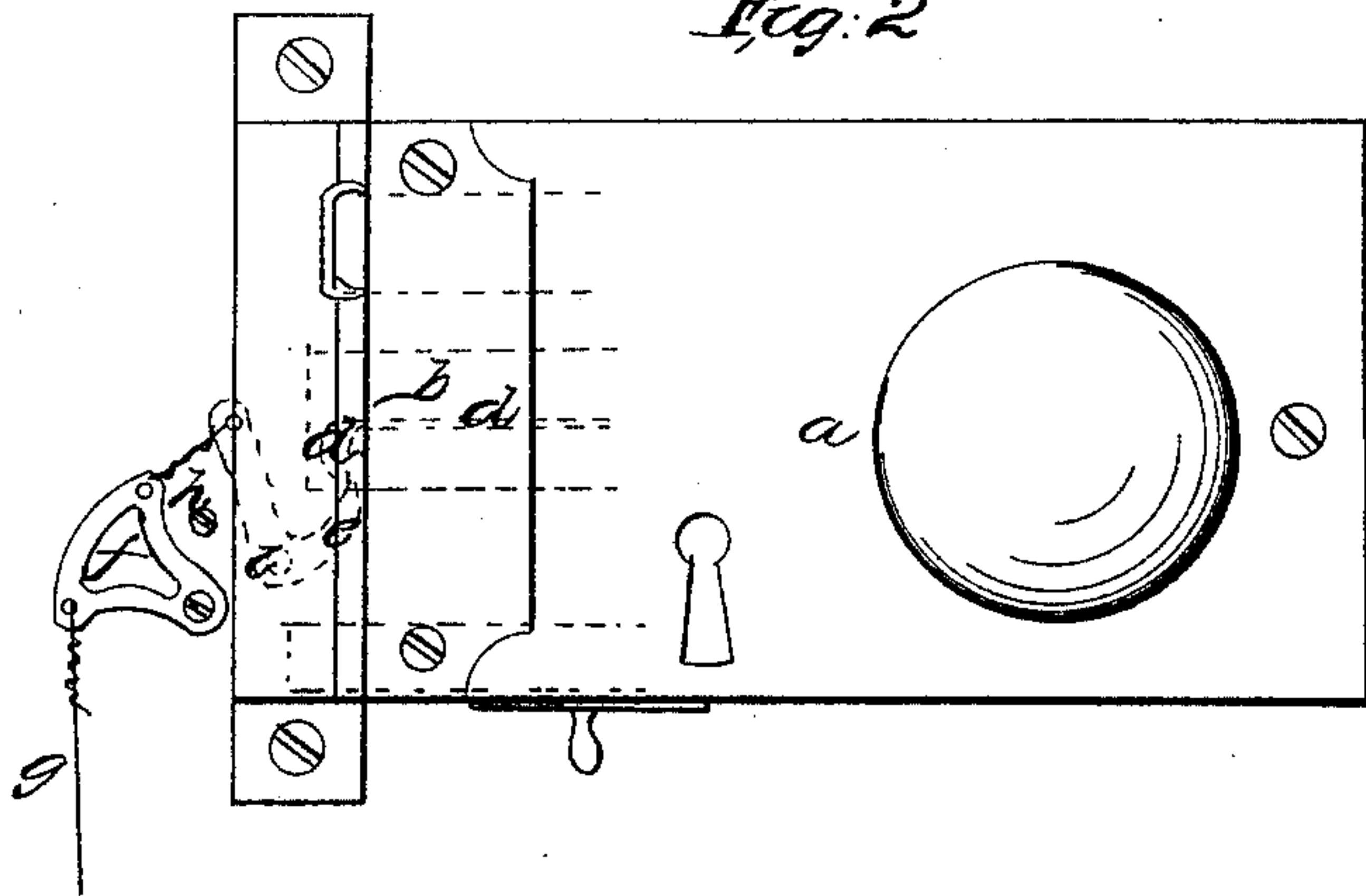


Fig. 3

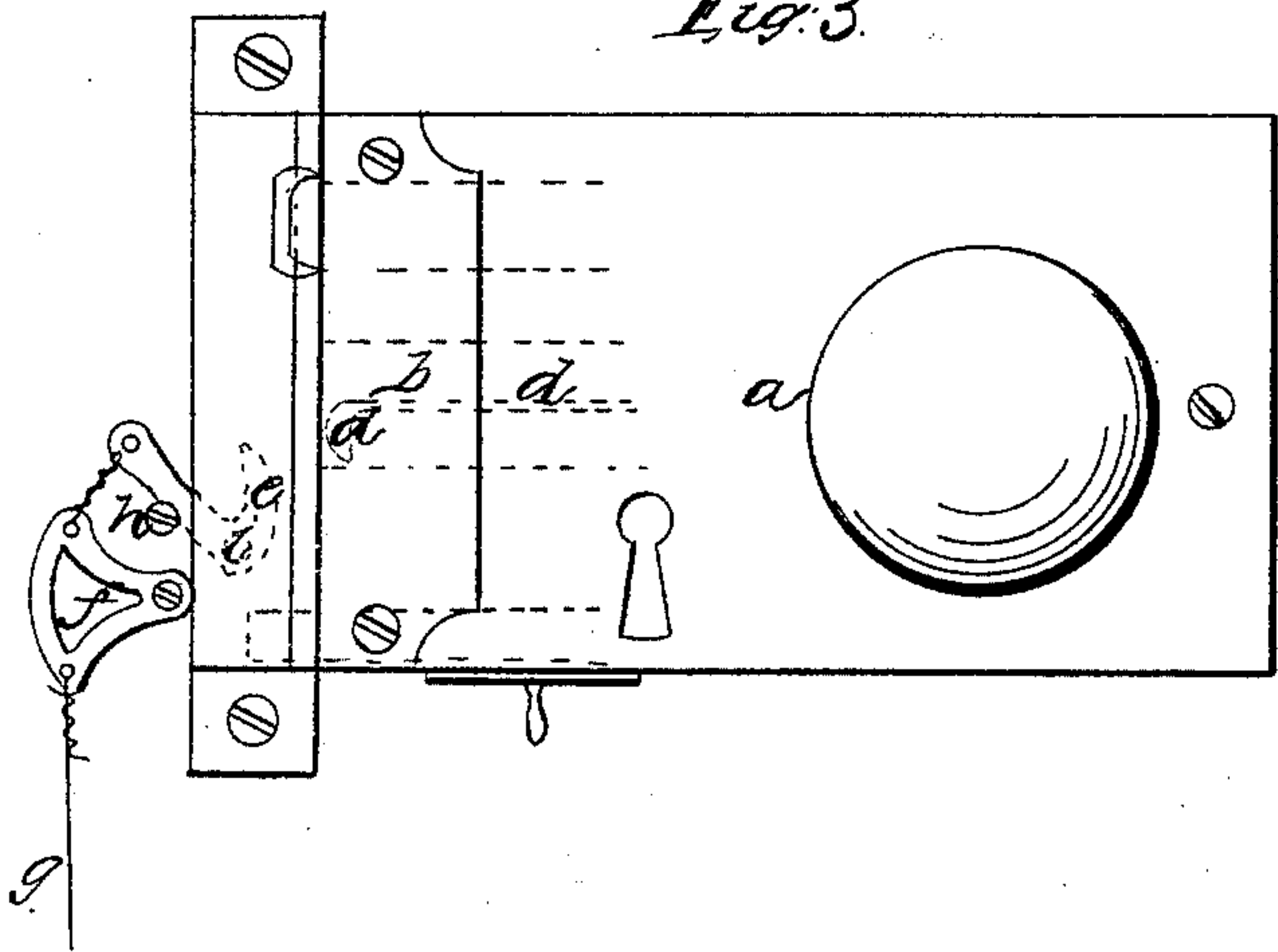
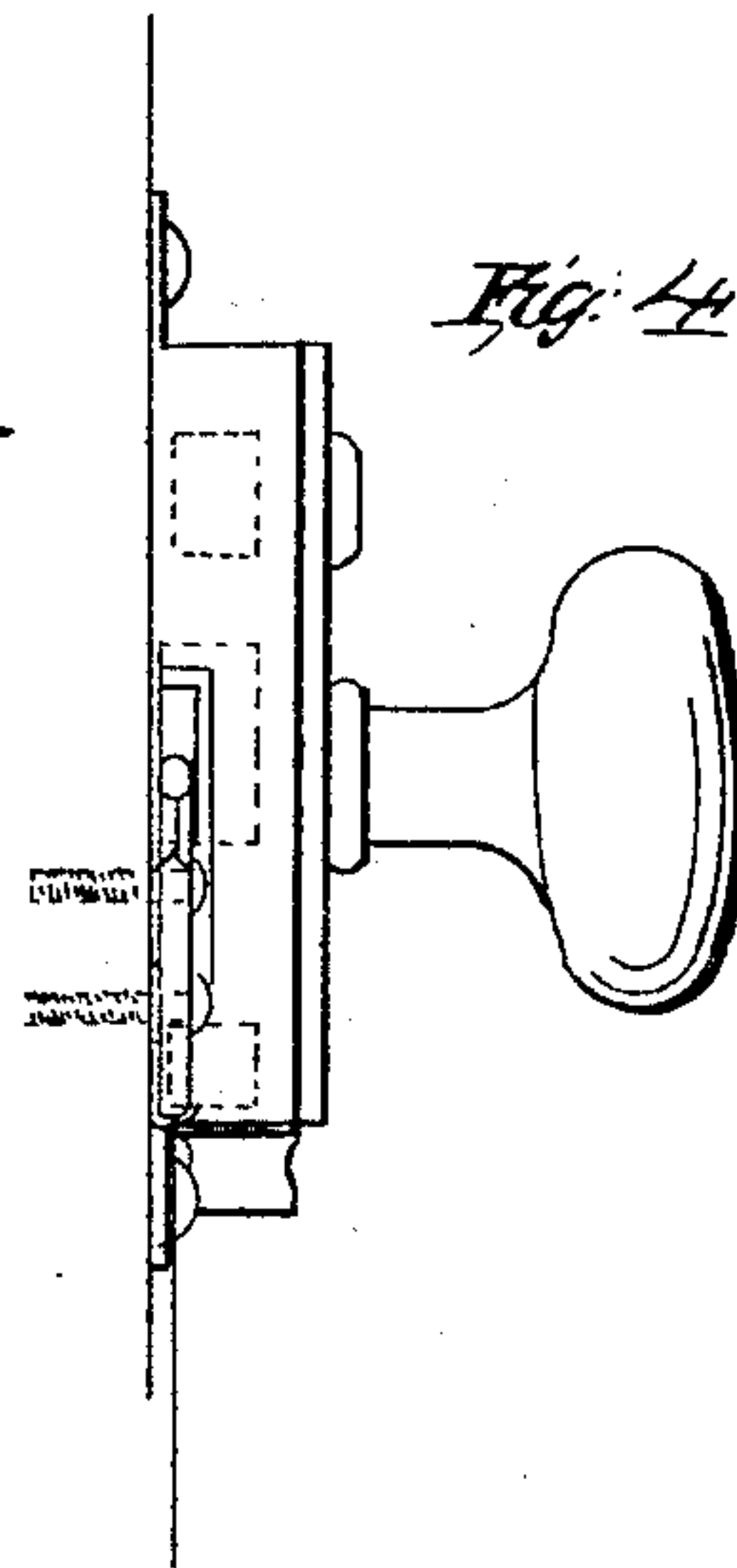


Fig. 4

Fig. 5



UNITED STATES PATENT OFFICE.

JONATHAN W. WELLS, OF PITTSBURG, PENNSYLVANIA.

ALARM-LOCK.

Specification of Letters Patent No. 21,457, dated September 7, 1858.

To all whom it may concern:

Be it known that I, JONATHAN W. WELLS, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented
5 a new and useful Improvement in Alarm-Locks; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the annexed drawing, forming part of this specification,
10 in which—

Figure 1, is a side view of my improved alarm lock, showing by dotted lines, the position of the locking bolt, and bell catch, when the door is locked, and the alarm set.
15 Fig. 2, is a similar view of my lock, showing the position of the parts, when the locking bolt is partly withdrawn, and just on the point of ringing the bell. Fig. 3 is a view of my lock showing the position of the
20 parts when the door is unlocked, and the bell catch released. Fig. 4 is an end view of my lock with the position of the bell catch. Fig. 5 is an end view of the locking bolt, showing the recess in it for the spring catch.

25 In the several figures like letters of reference denote similar parts of my invention.

My invention consists in the use and combination of a bell catch in the keeper of a lock, and a spring catch in the locking bolt
30 so arranged as hereinafter described, as to act automatically to ring a bell whenever the door is unlocked, by withdrawing the locking bolt of the lock.

To enable others skilled in the art to make
35 and use my improved alarm lock, I will proceed to describe its construction and operation.

In the several drawings *a* is a door lock, constructed in all parts, excepting the locking
40 bolt, as ordinary locks.

b is the locking bolt, (shown in dotted lines in Figs. 1, 2, and 3,) In this locking bolt is a recess *c* (see Fig. 5) in which is placed a spring catch *d*. This spring catch
45 has a head *d'* shaped like the head of a railroad spike, the shank of the catch being of steel, thin enough to act as a spring and sufficiently strong. The head *d'* of this spring catch is beveled on the outside so as
50 to depress the point of the bell catch *e*, and allow it to pass over it in locking the door. The spring shank of the spring catch is

fastened to the upper wall of the recess in the locking bolt. The bell catch *e*, is shaped like a hook, the outside of the point of
55 which is also beveled. This bell catch is pivoted at *i* to the inside of the keeper of the lock, with the hooked point of the bell catch turned upward, and at such a relative position to the bolt of the lock, that when
60 the locking bolt is pushed forward, the hooked point of the bell catch *e* will enter the recess in the bolt, and being depressed by the head *d'* of the spring catch *d* will assume the position shown in Fig. 1, forming
65 a locking connection with the head of the spring catch *d*. The long arm of the bell catch *e*, projects outside of the keeper of the door, and is connected by a wire with a tumbler *f*, to which is fastened the bell wire
70 *g*. This bell wire is connected in the ordinary manner with any bell in the house. A pin *h* is placed under the long arm of the bell catch to prevent its being drawn by the tension of the bell wire *g*, so far down as
75 to be out of the reach of the head *d'* of the spring catch. This may be effected also by making the slot in the side of the keeper of the exact length required for the play of
80 the bell catch.

The operation of my improved alarm lock is as follows: The bell catch *e*, being in the position shown in Fig. 3, the door is locked, and in so doing the head *d'* of the spring catch passes over the hooked
85 point of the bell catch *e*, which sets the alarm. When the door is unlocked, the withdrawal of the locking bolt *b* depresses the hooked point of the bell catch *e*, presenting, however, no sensible obstruction to the un-
90 locking of the door. So soon, as the point of the spring catch *d'* has passed over the point of the bell catch *e*, the bell catch flies back, striking against the pin *h* and the bell is rung of course.

95 One advantage of my alarm lock, is, that it needs no special adjustment or setting, as the locking of the door sets the alarm, and any successful effort to withdraw the locking bolt, is sure to ring the bell.

100 Having thus described my improved alarm lock, what I claim as my invention, and desire to secure by Letters Patent, is, The use and combination of a bell catch

in the keeper of a lock, and a spring catch
in the locking bolt so arranged, as herein-
before described, to set the alarm by simply
locking the door, and to spring the alarm,
5 and ring a bell whenever the door is un-
locked, substantially in the manner herein-
before set forth.

In testimony whereof I have hereunto set
my hand this twenty sixth day of July A. D.
1858.

JONATHAN W. WELLS.

Witnesses:

MARTIN G. CUSHING,
W. DUDLEY KING.