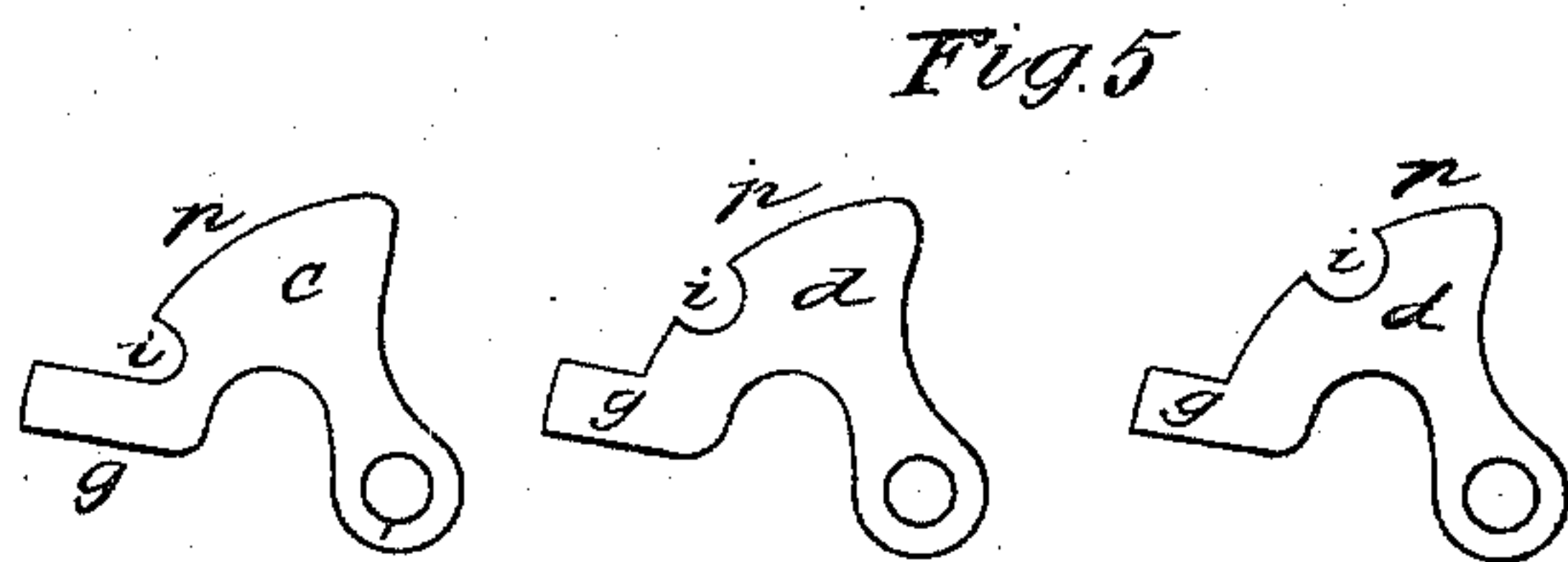
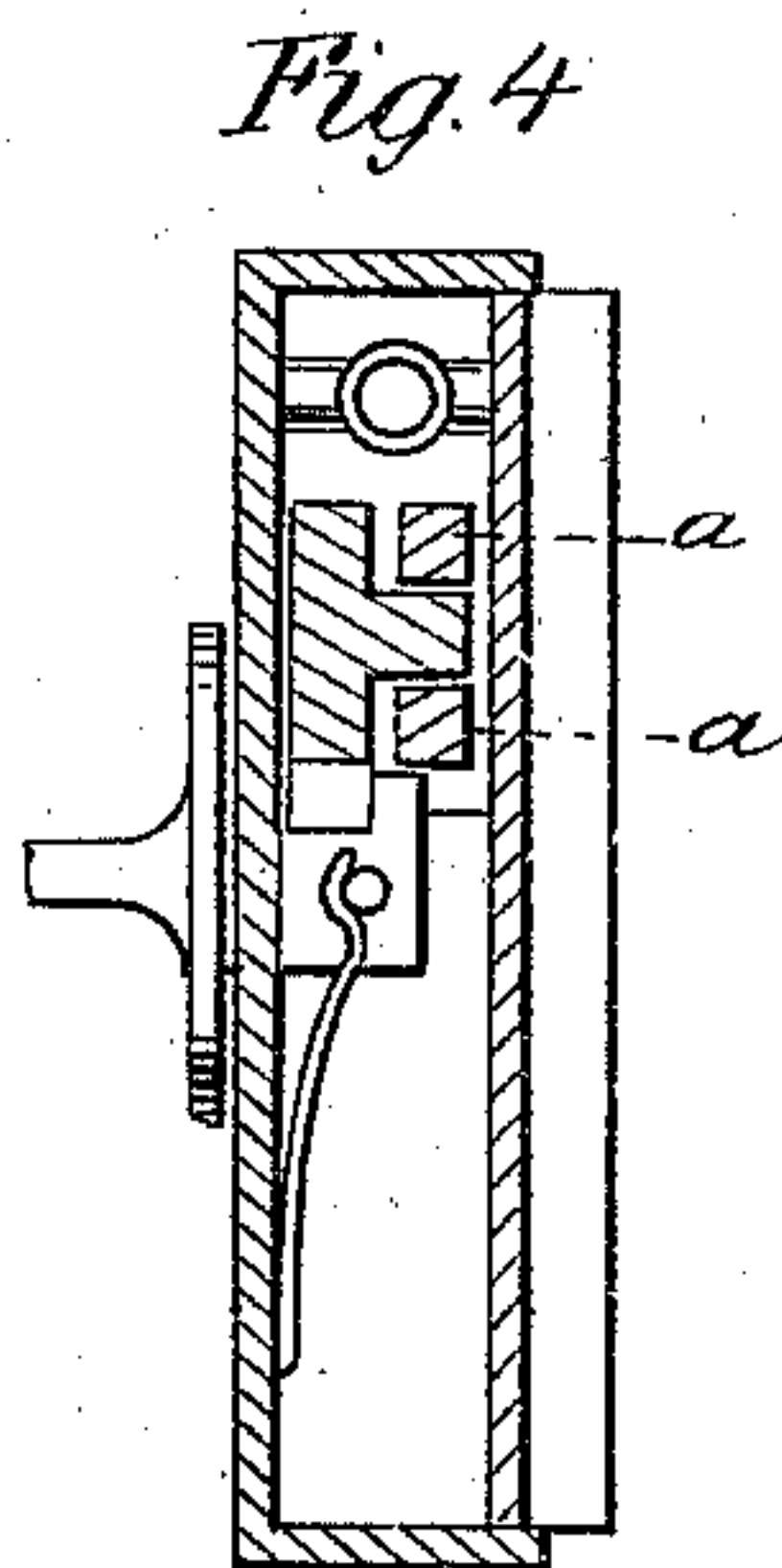
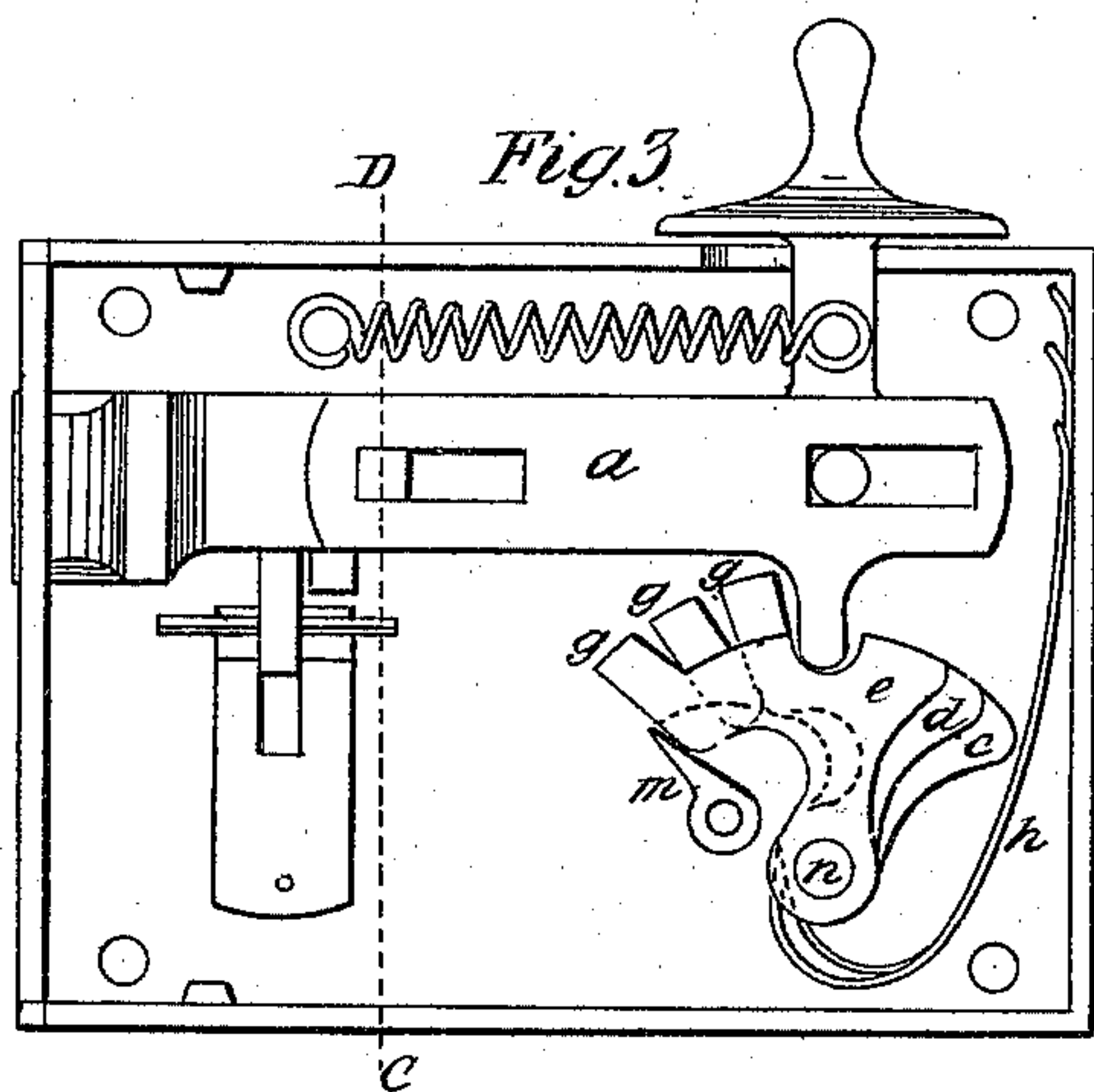
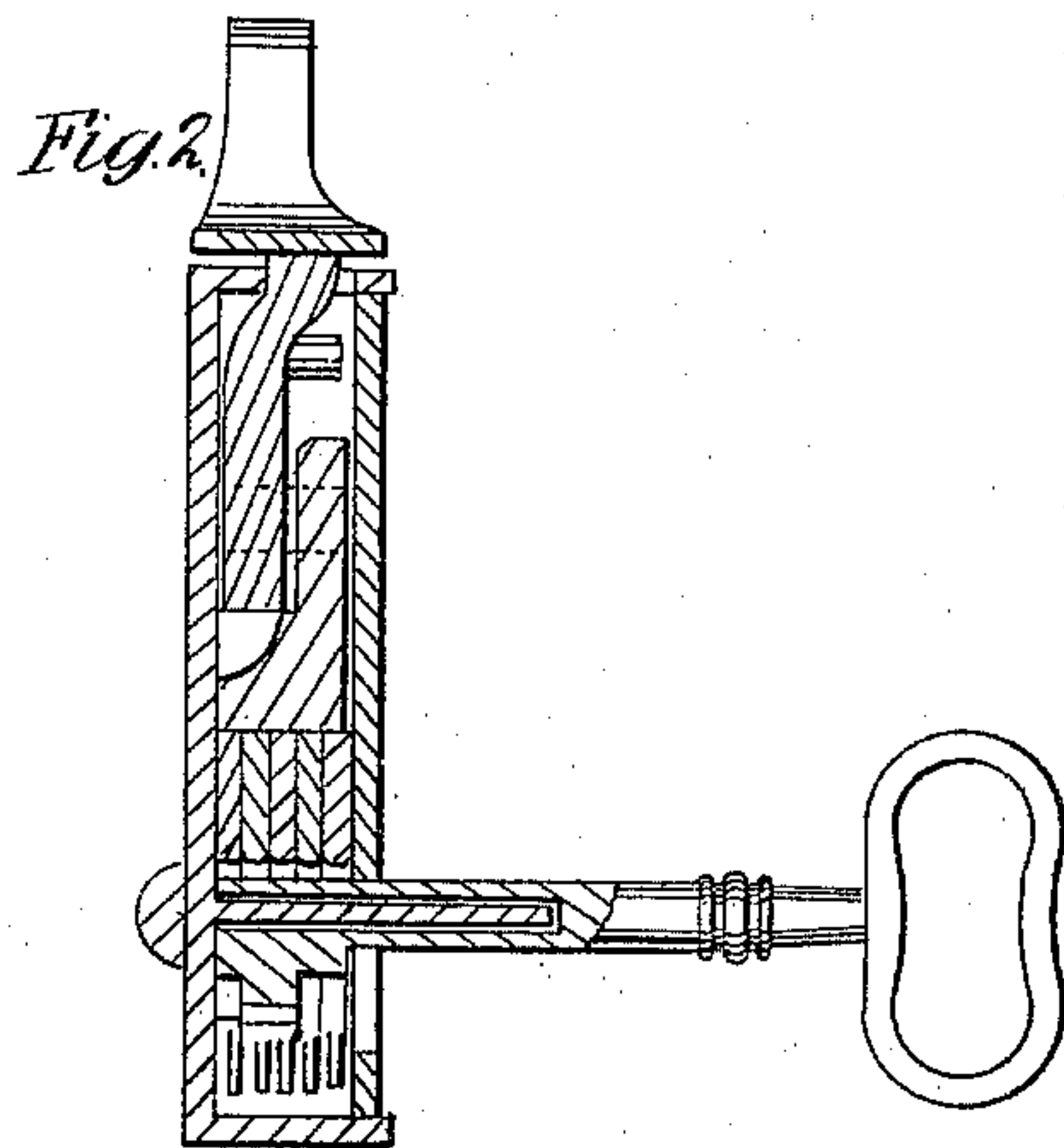
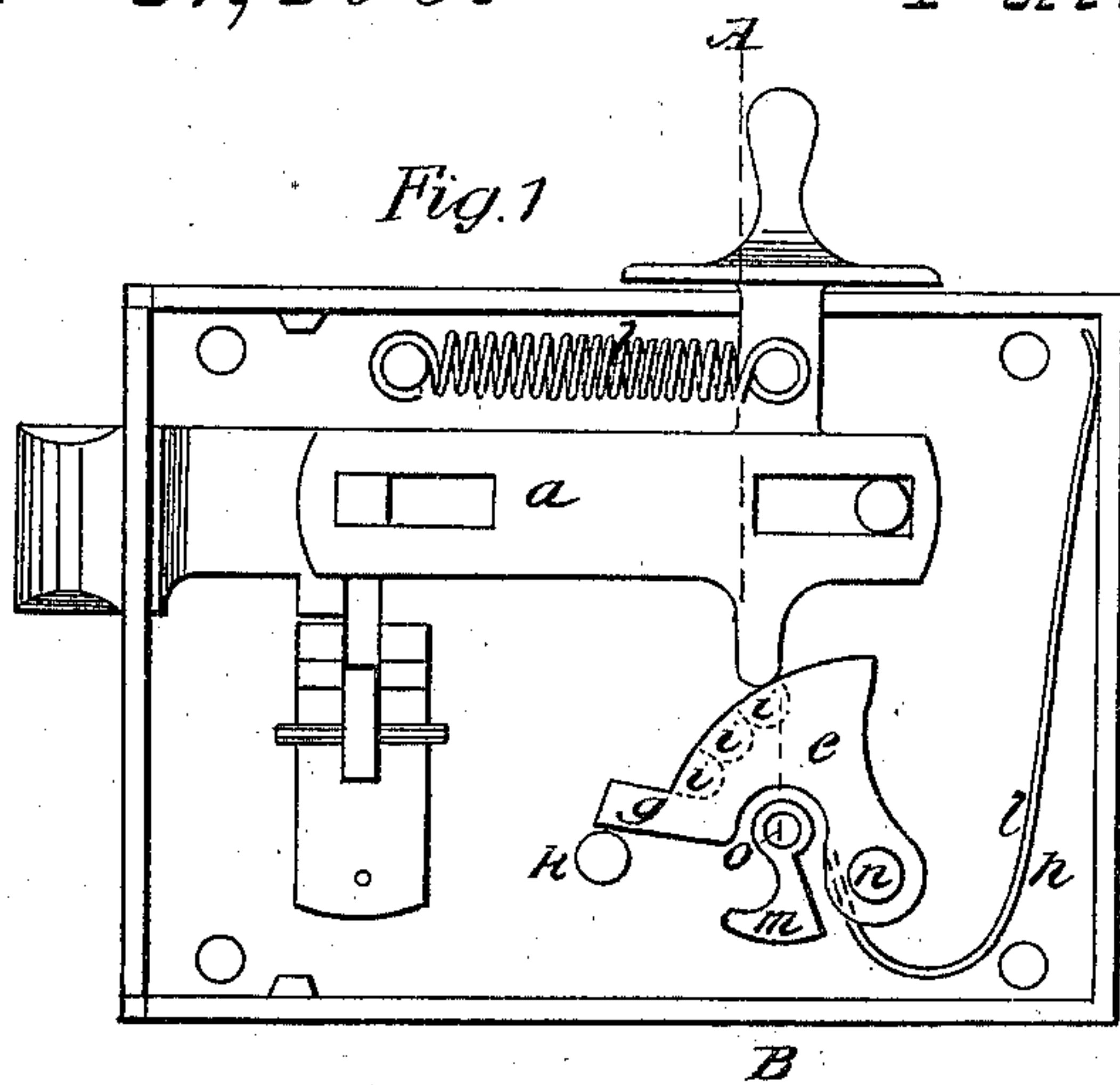


*H. Wijnblad,*

*Latch.*

*N<sup>o</sup> 21,293.*

*Patented Aug. 24, 1858.*



# UNITED STATES PATENT OFFICE.

HJALMAR WYNBLAD, OF WEST HOBOKEN, NEW JERSEY.

## LOCK.

Specification of Letters Patent No. 21,293, dated August 24, 1858.

*To all whom it may concern:*

Be it known that I, HJALMAR WYNBLAD, of West Hoboken, in the county of Hudson and State of New Jersey, have invented a new and Improved Lock; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

Figure 1, represents the position of the plates when the bolt is shut. Fig. 2, is a vertical section of the same. Fig. 3, represents the position when the bolt is pushed back. Fig. 4, is a vertical section of the same. Fig. 5, represents three plates detached.

The nature of my improvement comprises that kind of plate locks which have recesses in the periphery of the revolving wheel plates, to receive the end of a pendular lever, and consisting principally in an improvement on the shape and position of the plates, and in simplifying the action of the same, by making them to operate upon the bolt direct, dispensing with the lever and so forth.

The bolt *a* which is pressed outward by the spring, *C*, has a projection, *l*, on the lower side of the same width as the depth of the lock case.

The tumblers or plates, *c*, *d*, *e*, are constructed with a cog, *g*, to operate upon the bolt, a notch or incision, *i*, on the periphery, *p*, as near to the cog as the plate *c*, or at a shorter or greater distance from the same as the plates, *d*, and, *e*. A spring, *h*, is attached to each of the tumblers to keep them down against the stump, *k*.

*m*, is the bit of the key having projections sidewise of different length to correspond with the distances of the notches, *i*, from the cogs on the different tumblers.

*n*, is the centerpiece for the tumblers. *o*, is the same for the key.

I put the combined tumblers, *c*, *d*, *e*, in such a position that the inclined periphery

and edges, *p*, of the same stop the bolt from sliding back when the same is shut. As soon as the key is turned the tumblers will move; the notches on the different tumblers will coincide at the instant the cog comes in contact with the bolt, and admit of the same being pushed back by the continued motion of the cog. When the key is turned back, the bolt and the tumblers will take the same position as before as shown in Fig. 1.

A prominent feature of these lock actions is that the difference between the several plates cannot be traced by inserting a flat bit of a key made of wood or some soft metal and pressing it against the tumblers, because they all move up alike and stop at the same time against the projection on the bolt and make each the same impression upon the wood or soft metal as the other.

In the annexed drawings, which show the application of this lock action to a night latch, the bolt is made in two separate pieces, so that it can be drawn back from the inside of the door, without operating upon the action, but in other locks as padlocks, trunklocks, &c., this bolt is made in one piece and cannot be pushed back except through the action of the key.

I am aware that revolving wheel-plates with recesses on the periphery to receive the end of a pendular lever have been used and do not claim the same but—

What I claim as my invention and desire to secure by Letters Patent is—

The arrangement of tumblers provided with cogs and notches in connection with a projection on the bolt and operating in the manner and for the purpose substantially as described.

HJALMAR WYNBLAD.

Witnesses:

HENRY E. BORDER,  
FRANCIS CRONIN.