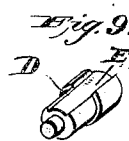
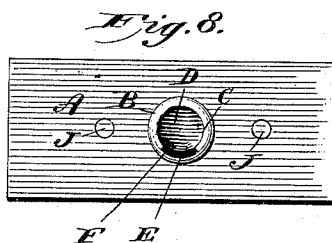
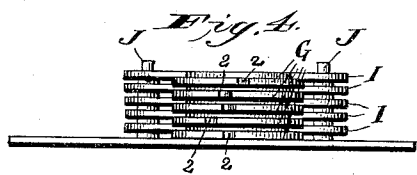
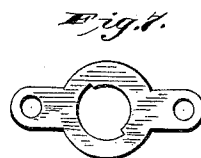
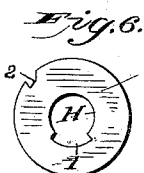
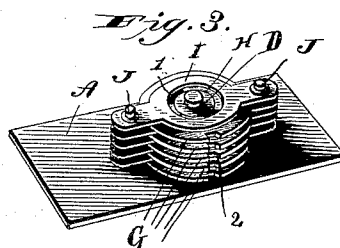
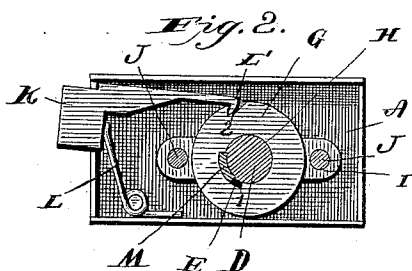
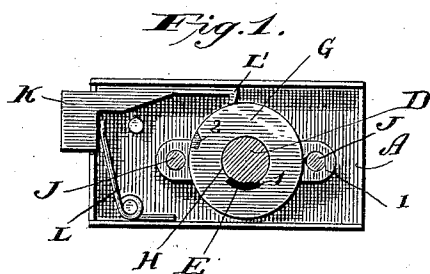


(No Model.)

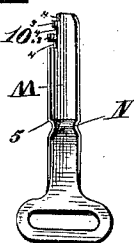
F. EGGE.
LOCK.

No. 417,008.

Patented Dec. 10, 1889.



Witnesses:
Jno. S. Funch
Robt. A. Knott



Inventor,
Frederick Egge

By F. W. Smith

Atty.

UNITED STATES PATENT OFFICE.

FREDERICK EGGE, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE SMITH
& EGGE MANUFACTURING COMPANY, OF SAME PLACE.

LOCK.

SPECIFICATION forming part of Letters Patent No. 417,008, dated December 10, 1889.

Application filed August 16, 1889. Serial No. 320,968. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK EGGE, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to locks and latches, the main object being to produce a simple and serviceable lock not liable to get out of order.

With these ends in view my invention consists in certain details of construction and combination of elements, such as will be fully hereinafter set forth and then specifically designated by the claim.

In the accompanying drawings, Figure 1 is an interior elevation of my improved lock in normal condition; Fig. 2, a similar view, but showing the latch engaged with the tumblers preparatory to withdrawal; Fig. 3, a detail perspective showing the tumblers with their gates in alignment; Fig. 4, a detail elevation of the tumblers in normal position; Fig. 5, a longitudinal sectional elevation; Figs. 6 and 7, detail plans of one of the tumblers and washers respectively; Fig. 8, an exterior plan; and Figs. 9 and 10, detail plans of the hub and key respectively.

Similar letters denote like parts in the several figures of the drawings.

A is the casing, having a thimble B extending outward from the same. This thimble is open at both ends, and has an inwardly-extending flange C at one end.

D is the hub journaled within said thimble and the bottom of the casing so as to turn freely.

E is a keyway milled in said hub, the diameter of the latter being reduced at the lower end so as to make said keyway shallowed, whereby the wards of the key may act upon the tumblers, as will be presently set forth.

A slot F is cut through the flange C, so as to permit the key to be inserted within the keyway.

The tumblers G are provided with central

openings H, recessed at 1, and in the peripheries of said tumblers are the usual gates 2. These tumblers are all pivoted around the reduced portion of the hub, and washers I are interposed between them and secured over posts J.

The latch K is arranged to slide freely and is capable of a rocking movement. A spring L bears against said latch with the effect to render the retraction of the latter resilient, and, furthermore, to cause the heel of the latch to press downward. A lug L' depends from the heel of the latch and normally rests against the peripheries of the tumblers, so that it will be readily understood that when the gates of the tumblers are brought into alignment opposite to said lug the latter will spring within said gates preparatory to the retraction of the latch. The key M is concavo-convex in cross-section and has wards and notches 3 4 cut in one of the lateral edges at the extremity. The key has a slight bend or depression N, affording a shoulder 5, which extends beneath the flange C and prevents said key from being withdrawn until the keyway E is brought into alignment with the slot F. The key as it extends through the keyway will project above the latter at that part of the hub where the diameter is reduced, so that when said hub is revolved by turning the key the latter will strike the forward walls of the tumbler-recesses 1 and thereby revolve the tumblers until the gates are brought into alignment beneath the spring-actuated lug L', when the latter will drop within said gates, the latch being then withdrawn by the continued turning of the key. The returning of the key to normal position for withdrawal revolves the tumblers forward and throws the lug L' out of the gates.

I do not wish to be understood as claiming any new principle of locking, but I desire to claim only the particular arrangement of parts shown and described.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the casing having extending therefrom an open thimble provided at its outer end with inwardly-projecting

flanges, the hub journaled within said thimble and the back of the casing, said hub having a keyway and a reduced lower extremity, the tumblers pivoted around the latter and provided with notches and gates, as described, the stationary washers interposed between said tumblers, the latch having its heel and provided with a depending lug, and the spring bearing against said latch, whereby the re-

traction thereof is resilient and the said heel is normally depressed, substantially as shown, and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK EGGE.

Witnesses:

F. W. SMITH, Jr.,

JNO. S. FINCH.