H. KORN.

LOCK.

APPLICATION FILED DEC. 7, 1915.

1,173,812. Patented Feb. 29, 1916.

Fig. 1,

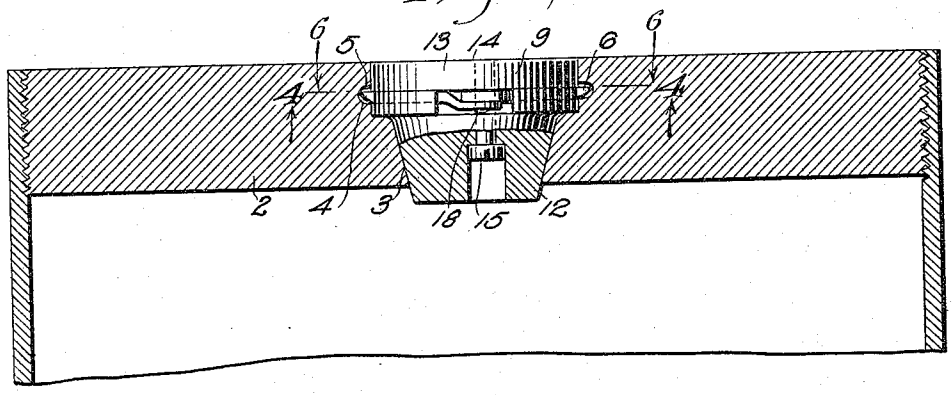


Fig. 2,

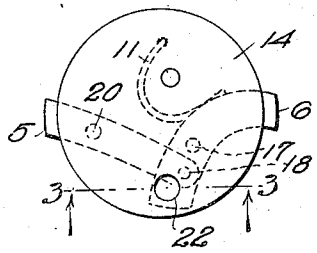


Fig. 6,

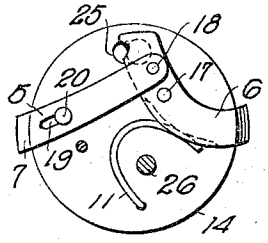


Fig. 3,

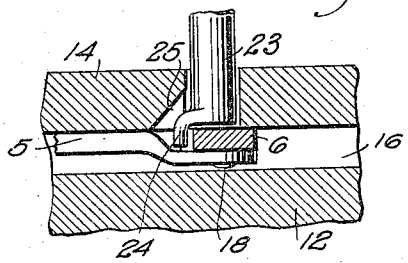


Fig. 5,

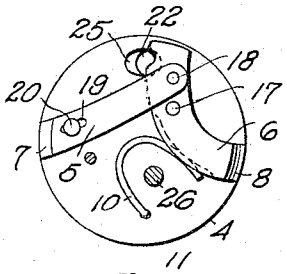


Fig. 4,

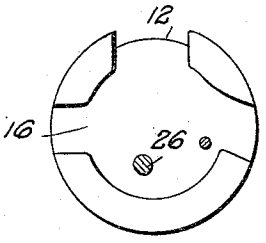
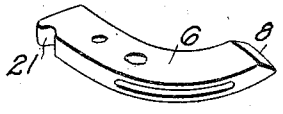


Fig. 7.



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LOCK.

1,173,812. Specification of Letters Patent. Patented Feb. 29, 1916.

Application filed December 7, 1915. Serial No. 65,552.

To all whom it may concern:

Be it known that I, HAROLD KORN, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Lock, of which the following is a full, clear, and exact description.

This invention relates to locks and has for an object the provision of an improved arrangement whereby the entire lock may be bodily applied and removed.

A further object in view is to provide a lock for containers which acts as a plug and which is formed with outwardly extending locking arms or bolts.

A still further object in view is to provide a lock with a pair of locking arms or bolts, one arm or bolt being pivotally mounted on the other, the arrangement of both bolts being such that a single key will cause the simultaneous actuation of both bolts.

In the accompanying drawings:—Figure 1 is a longitudinal vertical section through the upper part of a container showing a lock embodying the invention, certain parts being broken away; Fig. 2 is a top plan view of the lock shown in Fig. 1: Fig. 3 is an enlarged section through Fig. 2 on line 3—3; Fig. 4 is a section through the lock shown in Fig. 1, the same being on line 4—4; Fig. 5 is a view similar to Fig. 4 but showing the bolts retracted; Fig. 6 is a section through the lock shown in Fig. 1 on line 6—6; Fig. 7 is an enlarged detail perspective view of one of the locking bolts.

Referring to the accompanying drawings by numerals, 1 indicates a container of any kind provided with an end 2 in which is arranged a socket 3 having an annular groove 4 into which the ends of bolts 5 and 6 are projected.

It will be observed that the bolts 5 and 6 are provided with beveled faces 6 and 7 and that the complete locking structure 9 is formed with a body designed to snugly fit the opening 3 so that the locking structure may be forced directly into the opening until the bolts 5 and 6 snap into the groove 4, whereupon the container will be closed. As the lock is forced into position the bolts 5 and 6 move inwardly to the position shown in Fig. 5, said movement being against the action of spring 10 which is fastened at 11 to the lower section 12 of the body 13. The upper section 14 is connected with lower section 12 by means of a screw 15, as shown in Fig. 1, there being a space 16 provided in the upper section 14 for accommodating the bolts 5 and 6.

From Fig. 6 it will be noted that the bolt 6 is pivotally mounted at 17 to the upper section 14 while bolt 5 is pivotally mounted at 18 to bolt 6. A slot 19 is provided in bolt 5 for accommodating the pin 20 which is fastened in the upper section 14, whereby as the bolt 6 is moved pivotally bolt 5 will be moved substantially horizontally so that both bolts will be projected or retracted simultaneously. It will be observed that the bolt 6 is bent adjacent its outer end so that a short pivotal movement will cause the outer end to be moved substantially in a direct line outwardly or inwardly.

The inner end of bolt 6 is provided with a notch 21 which is normally arranged opposite one edge of the key-hole 22 so that when the key 23 is thrust through the hole the bent extension 24 may pass through the notch 25 and engage the bolt 6 in notch 21, whereby when the key 23 is rotated bolt 6 will be moved pivotally and bolt 5 moved longitudinally. By pivotally mounting one bolt on the other all intermediate connections and levers are eliminated, whereby the device is simplified and at the same time strongly constructed.

It will also be noted that the screw 15 clamps the parts 12 and 14 together but one or more pins 26 are provided in one of the parts and extends to the other part so as to prevent any accidental rotation of either section 12 or 14 independently.

From Fig. 1 it will be observed that the lock 9 acts as a plug or stopper for the top 2 and may be easily removed at any time so that the container 1 may be refilled.

What I claim is:

1. In a lock of the character described, a body provided with an upper and lower section, one of said sections being formed with a hollowed portion, means for clamping said sections together, a pair of bolts arranged in said hollowed portion, one of said bolts being pivotally mounted to one of said sections, means for pivotally mounting the other of said bolts to the first mentioned bolt, means for guiding said last mentioned bolt so as to cause the same to reciprocate, and a spring acting on said bolts for causing the same to be normally projected beyond the edge of said body.

2. In a lock of the character described, a body, a pair of bolts, said bolts being pivotally connected together adjacent one end, means for pivotally mounting one of said bolts on said body, means for extending the other of said bolts adjacent the outer end thereof, said last mentioned bolt being provided with a slot for accommodating said last mentioned means whereby when the first mentioned bolt is moved pivotally the second mentioned bolt will be moved longitudinally, said body being formed with a key-opening having a notch or cutaway portion for guiding the key to one side of said pivotally mounted member, whereby when said pivotally mounted member is moved by the key the same will be retracted and the reciprocating member will also be retracted, and a spring for normally holding said bolts in a projected or outer position.

3. In a lock of the character described, a body, a bolt pivotally mounted substantially centrally thereof, a spring for resiliently holding said bolt in a given position, a reciprocating bolt pivoted at one end to the pivotally mounted bolt between the end thereof and the pivotal mounting thereof, said reciprocating bolt being provided with a slot adjacent the upper end, and a pin extending through said slot and engaging the body so as to guide the reciprocating bolt in its back and forth movement.

4. In a lock of the character described, a body provided with upper and lower sections, means for clamping said sections together, one of said sections being formed with a hollow-out central portion and a plurality of openings radiating therefrom, one of said sections also being provided with a bore extending into said openings, said bore having a cutaway portion at one edge whereby a key having a laterally projecting hook may be passed through the bore, and a pair of bolts pivotally connected together near one end, one of said bolts being pivotally connected with said body so that one end will overlap almost entirely said bore whereby the projection on said key will engage the side of the bolt, the other of said bolts being provided with means for guiding the same in a longitudinal movement.

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

HAROLD KORN.

Witnesses:
LOUIS F. LELAND,
LELIA M. TINSLEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."