

No. 729,549.

PATENTED JUNE 2, 1903.

W. H. COLLINS.
DESK LOCK.

APPLICATION FILED NOV. 28, 1902.

NO MODEL.

Fig. 1.

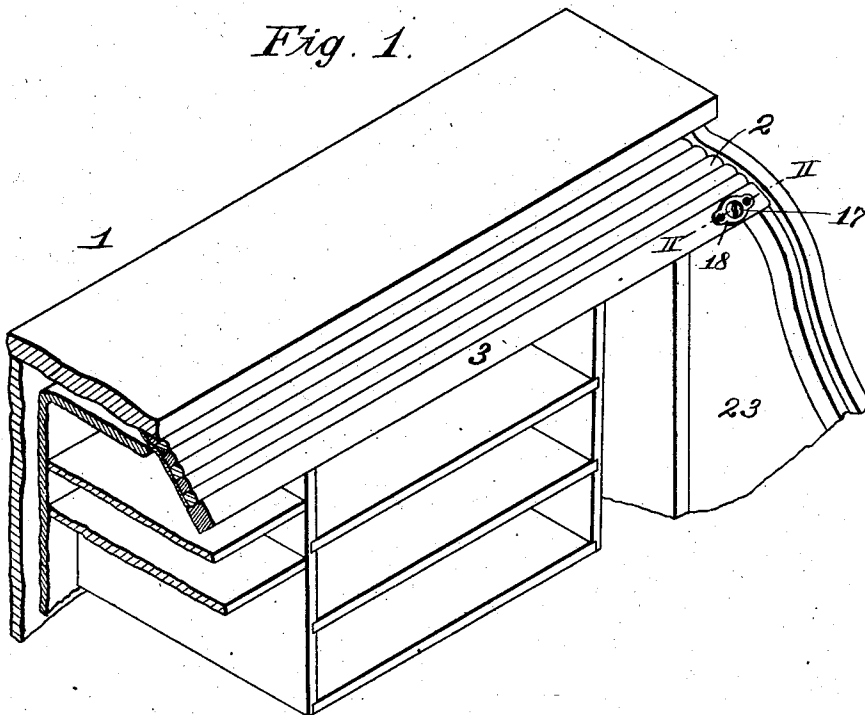


Fig. 2.

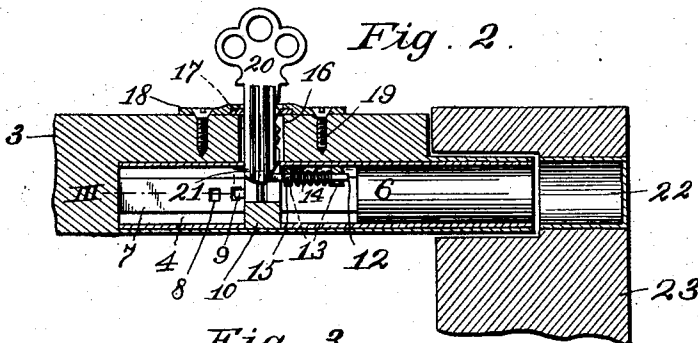


Fig. 3.

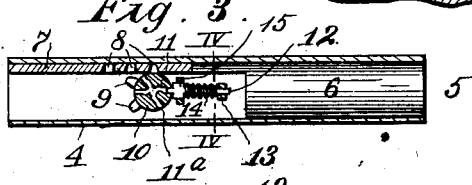
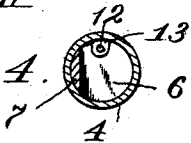


Fig. 4.



Witnesses:

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Inventor:

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UNITED STATES PATENT OFFICE.

WILLIAM H. COLLINS, OF KANSAS CITY, MISSOURI.

DESK-LOCK.

SPECIFICATION forming part of Letters Patent No. 729,549, dated June 2, 1903.

Application filed November 28, 1902. Serial No. 132,988. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. COLLINS, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Desk-Locks, of which the following is a specification.

My invention relates to improvements in roll-top-desk locks; and my object is to provide the desk with a lock whereby its roll-top may be secured against further movement after it has been drawn down just sufficiently to lock the drawers of the desk.

It is frequently desirable in leaving the office for a short period of time to lock the drawers containing the valuable papers without closing down the roll-top of the desk and giving the appearance that the proprietor will be absent for an indefinite time. By employing my invention this desirable object is obtained by the simple means hereinafter described, and more particularly pointed out in the claims.

In the accompanying drawings, which illustrate the invention, Figure 1 is a perspective view of the upper portion of a roll-top desk provided with my invention. Fig. 2 is a longitudinal detail sectional view of the lock and keeper, taken on line II II of Fig. 1. Fig. 3 is a longitudinal sectional view of the lock, taken on line III III of Fig. 2. Fig. 4 is a transverse section of the lock, taken on line IV IV of Fig. 3.

In the drawings, 1 indicates the upper portion of a desk of any ordinary or preferred construction provided with a roll-top 2, adapted to lock the drawers in the usual manner. The lower slat 3 of the roll-top is provided at one end with a mortise-lock comprising a tubular casing 4, in which is slidably arranged a bolt 5, comprising a forward round portion 6 and a flat rear portion 7, provided near its central part with mortise gear-teeth 8. Said teeth are engaged one at a time by teeth 9, projecting from the side of a cylinder 10, journaled at its opposite ends in the upper and lower portions of casing 4, and provided with intersecting key-slots 11 11^a, which extend almost to the bottom of the cylinder. Cylinder 10 is normally held against rotation by a pin 12, slidably arranged in guides 13, secured to the interior of casing 4 and encircled by an expansion-spring 14, which yield-

ingly holds the rear end of said pin into one or the other of the key-slots by pressing at its opposite ends against forward guide 13 55 and lugs 15, projecting from the rear portion of the pin, and which also limit the entrance of the latter into the key-slots by contacting with the side of the cylinder. Slat 3 has a counterbore 16, registering with cylinder 10, 60 which is partly closed at its upper end by a slotted disk 17, rotatably secured in an escutcheon 18, that is fastened by screws 19 to the slat.

Bolt 5 is operated by a key 20, having a 65 beveled end 21, adapted to contact with the rear end of pin 12 and force it out of engagement with the cylinder in order that the latter can be rotated to throw the bolt so its forward end will enter a keeper 22, secured in 70 a grooved side piece 23 of the desk. In this operation the cylinder is rotated a sufficient distance to bring slot 11^a opposite pin 12, which immediately engages said slot and secures the cylinder against further rotation. 75 In order to withdraw the bolt from the keeper, the key is taken out of slot 11 and inserted in slot 11^a to disengage pin 12 therefrom, so the cylinder may be rotated back to its first position, where it is again secured by the pin 80 engaging slot 11.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is--

1. In a desk provided with grooved side 85 pieces and a roll-top having movement therein, the combination of a lock secured to one corner of the roll-top, consisting of a casing, a bolt slidably secured therein, comprising a round front portion and an integral flat rear 90 portion, provided with mortise-teeth, a slotted cylinder journaled in the casing and provided with intersecting key-slots, cog-teeth on said cylinder which mesh with the mortise-teeth in the bolt, a spring-actuated pin 95 secured in the casing and adapted to engage either of the slots in the cylinder, and a keeper secured to one of the side pieces and adapted to receive the bolt of the lock, substantially as described. 100

2. In a desk provided with side pieces and a roll-top having movement therein, the combination of a casing secured to one corner of the roll-top, a bolt slidably secured in the cas-

ing and provided at its rear portion with mortise-teeth, a cylinder journaled in the casing and provided with two slots, gear-teeth formed integral with the cylinder and adapted to mesh with the mortise-teeth of the bolt, a pin slidably arranged in guides secured to the casing and adapted to engage either of the slots in the cylinder, lugs formed integral with the rear portion of the pin to limit its entrance in the slots, a spring encircling the pin and interposed between one of the guides and the lugs of the pin, a key provided

with a beveled end for disengaging the pin from the cylinder, and a keeper secured to one of the grooved sides and adapted to receive the bolt of the lock, substantially as described. 15

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

WILLIAM H. COLLINS.

Witnesses:

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F. G. FISCHER.