Jan. 5, 1926. 1,568,202

A. J. BALL

ROD FASTENING DEVICE FOR CARD DRAWERS

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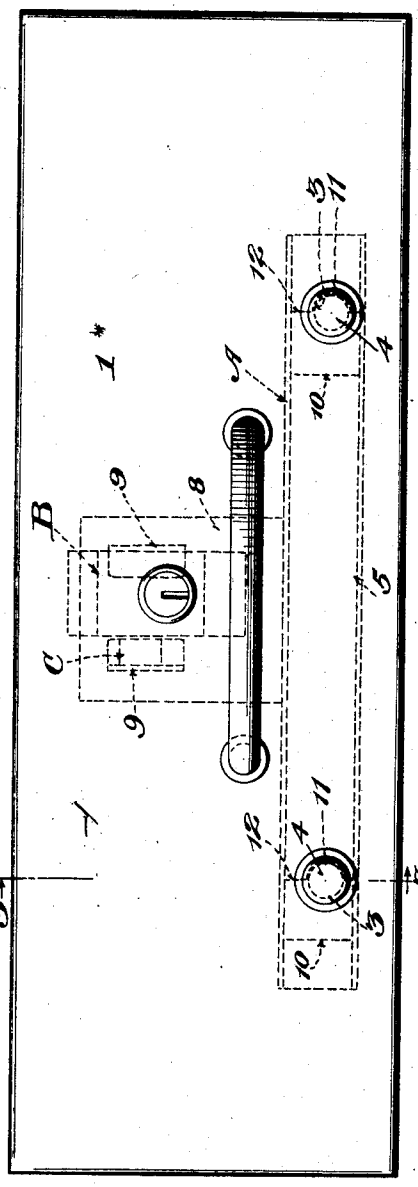


Fig. 1.

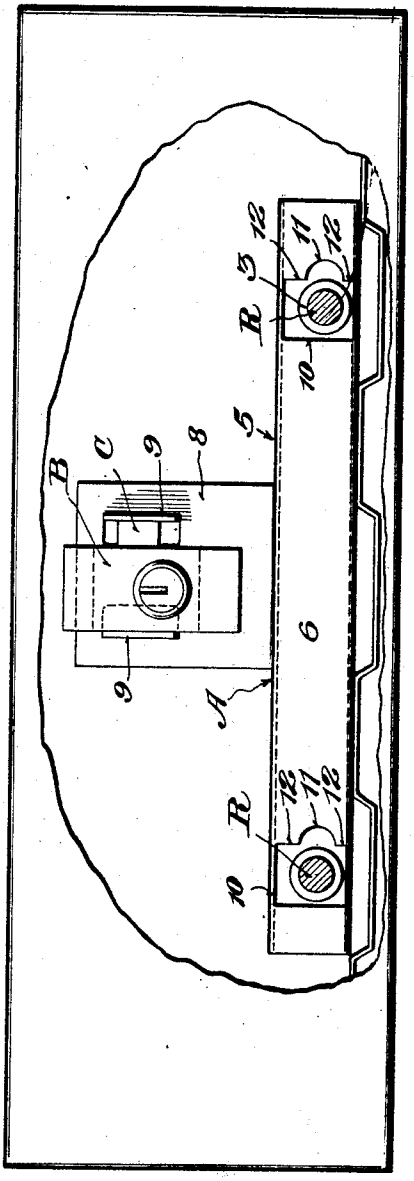


Fig. 2.

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Fig. 3.

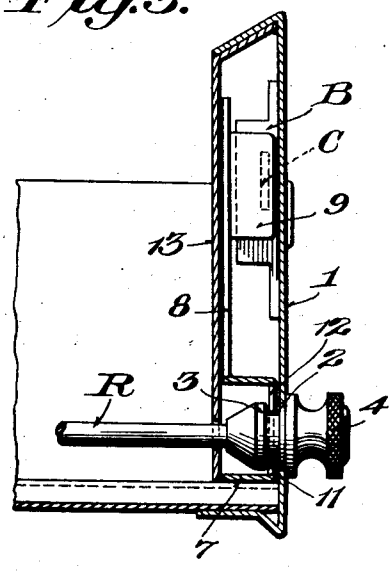


Fig. 5.

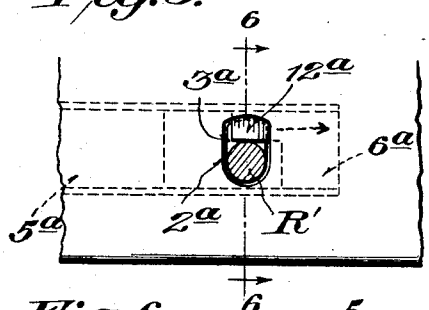


Fig. 6.

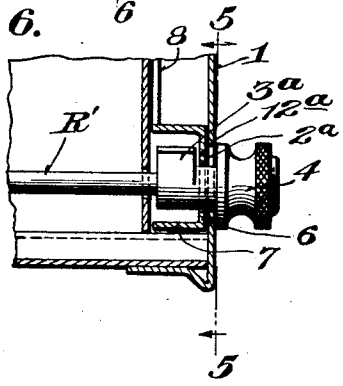
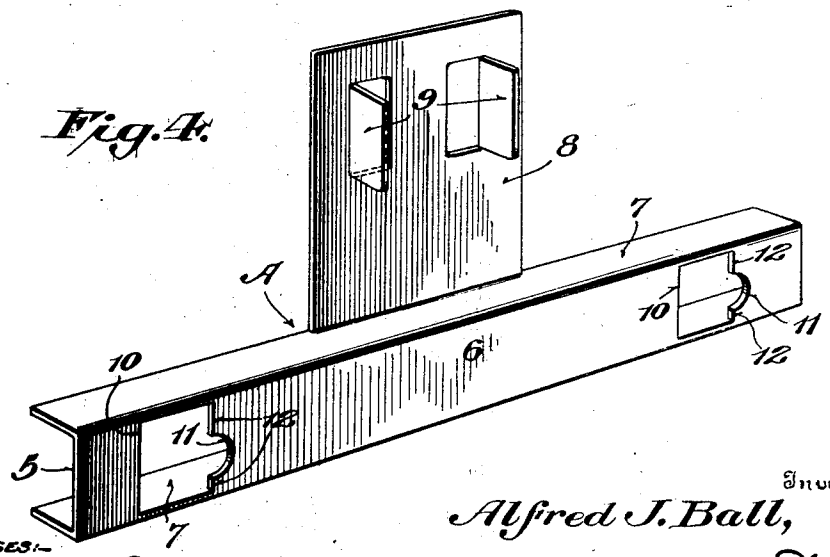


Fig. 4.



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UNITED STATES PATENT OFFICE.

ALFRED J. BALL, OF YOUNGSTOWN, OHIO, ASSIGNOR TO THE GENERAL FIREPROOFING COMPANY, OF YOUNGSTOWN, OHIO, A CORPORATION OF OHIO.

ROD-FASTENING DEVICE FOR CARD DRAWERS.

Application filed January 3, 1924. Serial No. 684,260.

To all whom it may concern:

Be it known that I, ALFRED J. BALL, a citizen of the United States, residing at Youngstown, in the county of Mahoning and State of Ohio, have invented certain new and useful Improvements in Rod-Fastening Devices for Card Drawers, of which the following is a specification.

This invention relates to a rod fastening or locking device for preventing the unauthorized removal of the rod which holds the record and index cards in the drawer.

A primary object of the invention is to provide a simple, practical, and reliable construction for locking or fastening the rod so as to prevent the rod from being withdrawn to release the cards, except when the device is manipulated by a proper key. In that connection the invention contemplates a construction which is easily made and assembled and simple to operate and control.

A further object of the invention is to provide a construction which is adapted for locking a plurality of card rods in a simple and effective manner.

With the above and other objects in view which will more readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts hereinafter more fully described, illustrated and claimed.

A preferred and practical embodiment of the invention is shown in the accompanying drawings in which—

Figure 1 is a front elevation of a drawer embodying the present invention with the card rods locked.

Figure 2 is a view similar to Figure 1, with a portion of the drawer front broken away and showing the rods unlocked.

Figure 3 is a vertical sectional view taken on the line 3—3 of Figure 1.

Figure 4 is a perspective view of the rod-engaging or locking member.

Figure 5 is a detail view illustrating a modified form of shoulder on the rod and modified cooperating keeper slot.

Figure 6 is a detail vertical sectional view taken on the line 6—6 of Figure 5.

Similar reference characters designate corresponding parts throughout the several figures of the drawings.

In carrying the present invention into effect it is proposed to provide a rod-fastening construction which is easily assembled and operated. To that end it is proposed to use a rod-engaging or locking member designated generally as A, and a suitable lock B, of standard construction, and having a reciprocating lock bolt C, and which, when manipulated by the usual key for the lock, will shift the rod-locking member into and out of engagement with the card-holding rod or rods R.

Referring more specifically to the drawings it will be observed that the drawer front 1 is provided with a suitable opening 2 for receiving the annular locking shoulder 3 carried by the rod adjacent the finger operating knob or handle 4. It will thus be understood that when no obstruction is provided between the shoulder 3 and the opening 2, the rod R may be freely inserted and withdrawn from the drawer through the opening 2. However, in order to prevent the unauthorized removal of the rod R, there is provided the novel rod-locking member A, previously referred to, and which may consist of a channel-shaped body portion 5, having the front wall 6 and rearwardly disposed flanges 7, and the offset extension 8 which provides an upright head portion. This extension or head portion may be formed with the offset spaced abutment lugs or wings 9 in any suitable and convenient manner, as for example, by punching the same out from the head as clearly shown in Figure 4. The said abutment lugs 9 are adapted to lie on each side of the lock B having the reciprocating lock bolt C in such a manner that the actuation of the bolt by a key inserted in the barrel of the lock will cause a corresponding movement or reciprocation of the member A.

The front wall 6 of the channel-shaped body 5 is provided with the slots or openings 10 for the passage of the rods, which may be of any desired shape or form so as to alternately lock the rod and give clearance to the shoulder 3. As shown, one edge of said openings 10 is formed with a notch or recess 11 for receiving a portion of the rod R in such a way as to make keeper shoulders 12 on the edge of the opening having the notch.

When the device is assembled as shown in Figures 1, 2 and 3, the lower flange 7 of the substantially inverted T-shaped member

A rests upon the floor or bottom of the drawer and the wall 6 lies in a position between the annular shoulders 3 and the inside of the front wall of the drawer while the offset extension 8 extends upwardly behind the casing of the lock B in such a way that the abutment lugs 9 extend forwardly into the path of movement of the reciprocating lock bolt C.

The operation of the device is believed to be readily apparent from the illustrations but it may be pointed out that when the rods R are locked as shown in Figure 1 the keeper edges 12 of the openings 10 are disposed in obstructing relation to the annular shoulders 3 on the rods R, while the notch 11 embraces approximately one half of the circumference of the rod. On the other hand when a key has been inserted in the barrel of the lock and the same rotated to shift the lock C, as shown in Figure 2, the entire locking member A is shifted so as to place the opening 10 in registry with the opening 2 in the drawer-front 1 thereby permitting the rod R to be withdrawn from the drawer.

A modification of the invention is shown in Figures 5 and 6 of the drawings wherein an eccentric shoulder 3^a is provided on the rod R′, the said eccentric shoulder or lug 3^a cooperating with a correspondingly shaped opening or slot 2^a in the front wall of the drawer. When the rod is locked as shown in Figure 5 the keeper shoulder 12^a on the front wall 6^a of the channel-shaped member 5^a will be in obstructing relation with reference to the shoulder 3^a and will prevent withdrawal of the rod R′ which would otherwise take place due to the registering of shoulder 3^a with the slot 2^a. When the channel shaped member 5^a is shifted in the direction of the arrow in Figure 5, the shoulder 12^a will be removed from locking or obstructing relation to the shoulder 3^a and the rod R′ may be withdrawn.

From the foregoing it will be observed that one of the distinctive features and characteristics of the present invention is to provide a rod-locking member A adapted to be reciprocated by the lock-bolt of a lock device B. This lock device is of standardized construction simply requiring the use of an ordinary flat key to manipulate the lock bolt, and as the latter reciprocates, its movement is transmitted to the locking movement A through the medium of the abutments 9. For the purpose of maintaining the upright portion 8 in proper position and also housing the locking mechanism, a suitable inside facing sheet 13 is used. This facing sheet together with the front wall 1 and upper edge of the drawer front constitute a complete housing and guideway for the locking mechanism.

Without further description, it is thought that the features and advantages of the invention will be readily apparent to those skilled in the art, and it will of course be understood that changes in the form, proportion and minor details of construction may be resorted to, without departing from the spirit of the invention and scope of the appended claims.

I claim:—

1. In a rod-fastening device for card drawers, the combination with a hollow metal drawer front, of a key-controlled reciprocating lock bolt and a rod-locking member housed within said hollow drawer front, and said rod-locking member being guided by the walls of the hollow drawer front to slide transversely therein when moved by the latch bolt.

2. In a rod-fastening device for card drawers the combination with spaced metal plates comprising the front and back walls of the drawer front, of a key-controlled horizontal reciprocating locking bolt and a transversely slidable rod-locking member guided between said plates and having means for interlocking with the rod, and also having means adapted to be engaged by said lock bolt to be actuated thereby.

3. In a rod-fastening device for card drawers the combination with spaced metal plates comprising the front and back walls of the drawer front, of a key-controlled horizontally reciprocating lock bolt, and a transversely slidable locking member including a horizontal part adapted to slidably engage the front wall of the drawer front and an upright part adapted to slidably engage the rear wall of the said drawer front, rod-locking means carried by the horizontal part, and lock bolt engaging means carried by the upright part.

4. A rod-fastening device for card drawers including a key-controlled reciprocating bolt, a shoulder on the rod, and a shitable rod-locking member comprising a horizontal channel portion having openings in one wall thereof to engage with the shoulders on the rod, and an upright portion provided with means to be engaged by the said reciprocating lock bolt.

5. A rod-fastening device for card drawers including a key-controlled reciprocating lock bolt, a shoulder on the rod, and a shiftable rod-locking member having means for engaging said shoulder on the rod and also having offset abutments adapted to be engaged by said reciprocating lock bolt.

6. A rod-fastening device for card drawers including a key-controlled reciprocating lock bolt, a shoulder on the rod, and a shiftable rod-locking member including a body portion and a head, said body portion being provided with an opening for receiving the rod and one edge of the opening being formed to engage with the shoulder on the rod, and said head being formed with off-

set abutments adapted to be engaged by said lock bolt.

7. A rod-fastening device for card drawers including a key-controlled reciprocating lock bolt, an annular shoulder on the rod, a rod-locking member including a body and a head, said body having an opening for receiving said rod, and one edge of the opening being provided with a rod-receiving notch whereby the edge of the opening adjacent the notch will engage with the shoulder on the rod, and abutment means carried by the said head disposed in the path of movement of said lock bolt.

8. A rod-fastening device for card drawers, including a key-controlled reciprocating lock bolt, a shoulder on the rod, and a shiftable rod-locking member including a horizontal portion having means for engaging and disengaging said shoulder on the rod, and an upright portion carrying projections disposed in the path of movement of said lock bolt.

9. A multiple rod-fastening device for card drawers including a key-controlled lock bolt, and a substantially inverted T-shaped locking member having means for interlocking with a plurality of rods, and also having means adapted to be engaged by said lock bolt to be actuated thereby.

10. In a card drawer, the drawer front having an opening, a rod for passing through the cards, a key-controlled reciprocating lock bolt carried by the inner face of the drawer front, a shoulder on the rod adapted to pass through said opening in the drawer front, and a shiftable rod-locking member having a portion provided with an opening, and an edge of said opening being adapted to be interposed between the shoulder on the rod and the opening in the drawer front, and said locking member also having an upright portion provided with offset abutments adapted to be engaged by said lock bolt.

11. A rod-fastening device for card drawers including a key-controlled lock bolt, a shoulder on the rod, and a shiftable rod-locking member consisting of a channel-shaped body portion and an offset part provided with angularly disposed abutments adapted to be engaged by said lock bolt, and the main wall of said channel-shaped part being provided with a rod-receiving opening one edge of which is adapted to engage with said shoulder on the rod.

In testimony whereof I hereunto affix my signature.

ALFRED J. BALL.