Dec. 3, 1929. B. M. HOLDEN 1,738,004

DRAWER FASTENER

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Fig. 1.

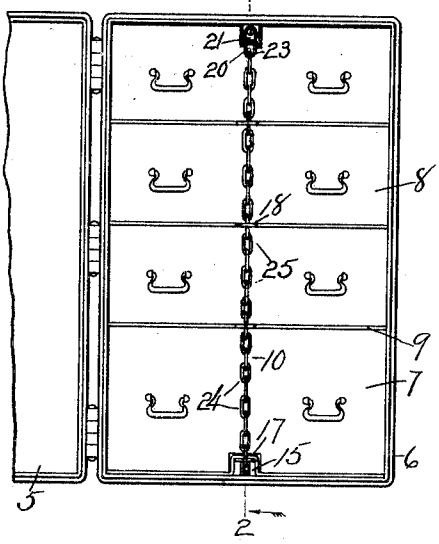


Fig. 2.

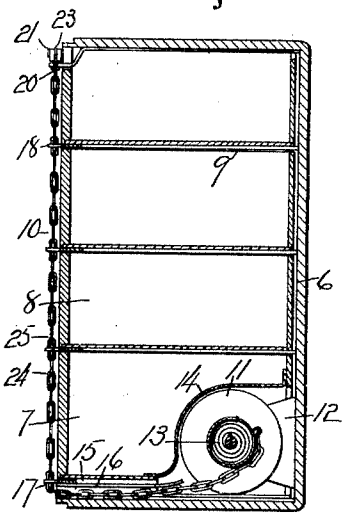


Fig. 5.

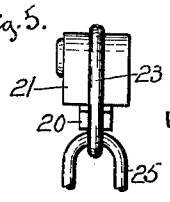


Fig. 6.

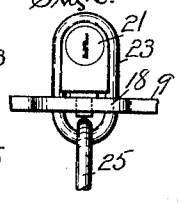


Fig. 7.

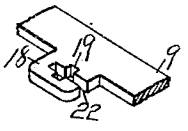


Fig. 3.

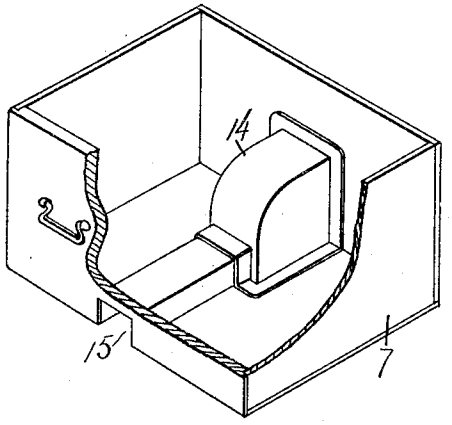
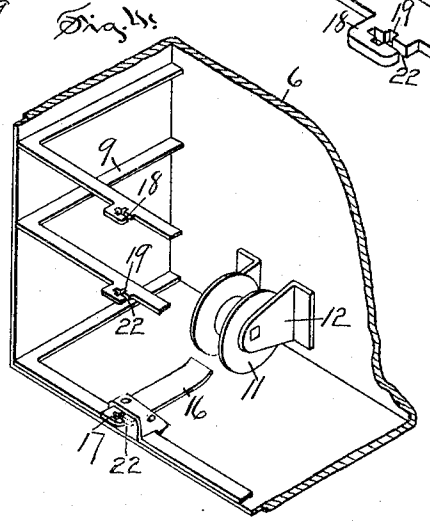


Fig. 4.



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Fig. 8.

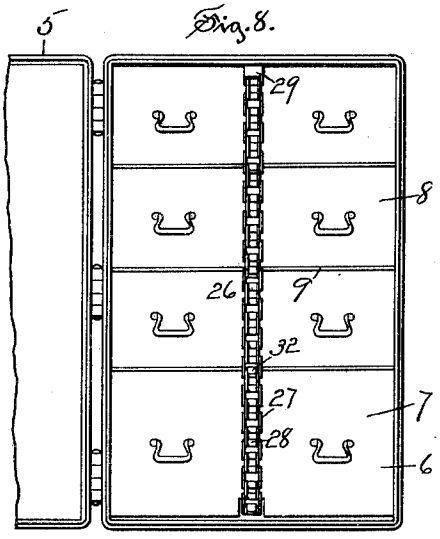


Fig. 9.

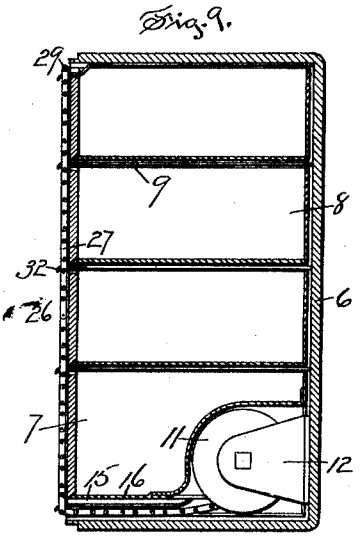


Fig. 10.

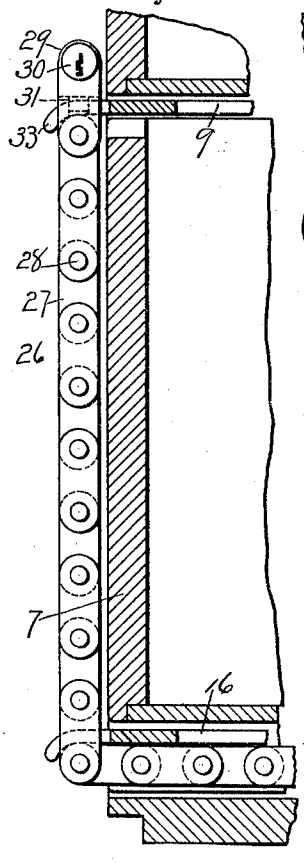


Fig. 11.

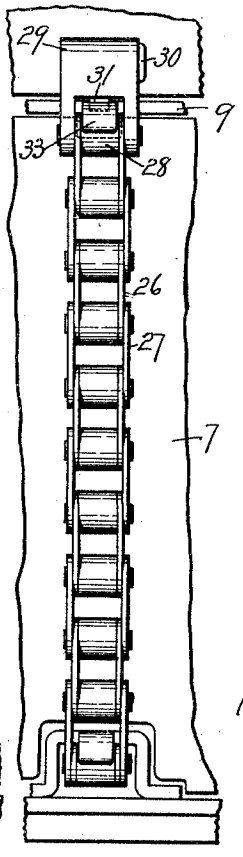
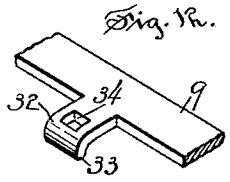


Fig. 12.



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UNITED STATES PATENT OFFICE

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DRAWER FASTENER

Application filed April 15, 1927. Serial No. 184,136.

My invention relates to the class of devices that are employed for securing drawers in closed positions, and is particularly adapted for use to secure the drawers of so called "wardrobe trunks", and an object of my invention, among others, is the production of a fastener that is particularly effective and that may be readily operated for the purposes for which it is designed.

One form of device embodying my invention and in the construction and use of which the objects herein set out, as well as others, may be attained, is illustrated in the accompanying drawings, in which—

Figure 1 is a view of a portion of a wardrobe trunk shown as open and with my improved fastener applied thereto in position for securing the drawers.

Figure 2 is a view in section on a plane denoted by the dotted line 2—2 of Figure 1.

Figure 3 is an isometric view of one of the drawers broken away to illustrate the application of my improved fastener.

Figure 4 is an isometric view of the lower portion of one section of the trunk case broken away to illustrate the application of my improved fastener.

Figure 5 is a detail view, scale enlarged, illustrating the manner of attachment of the lock to the end of the flexible support.

Figure 6 is a face view of the lock showing its method of attachment and its engagement with the keeper at the top of the trunk section.

Figure 7 is a detail isometric view illustrating the construction of the keepers.

Figure 8 is a view similar to Figure 1, but illustrating a little different form of flexible fastener.

Figure 9 is a view similar to Figure 2 and illustrating this second form of fastener.

Figure 10 is a view, scale enlarged, illustrating the manner of securing the lock to the keeper at the top of the bottom drawer, and to this second form of fastener.

Figure 11 is a similar view but illustrating the flexible support and lock support in face view.

Figure 12 is a detail isometric view illustrating the construction of the keeper adapted to this second form of flexible fastener.

In the accompanying drawings the numeral 5 indicates one section of a wardrobe trunk, and 6 another section thereof secured thereto in the usual manner by means of hinges, my improved fastener being shown as applied to the section or case 6 that contains the drawers 7—8 that are secured by said fastener. Drawer supports 9 are secured to the inner surface of the section 6 at proper intervals apart to support the drawers for sliding movement, in a manner common to structures of this kind.

In adapting my improved device for the purpose of securing the drawers I provide a fastener 10 that, to attain my ends, should be flexible, and any flexible member of any suitable material will answer my purpose. In a preferred form of construction, and as shown herein, this flexible fastener is in the form of a chain and is adapted to be wound upon and unwound from a spool or other support 11 rotatably mounted in brackets 12 secured to the back wall of the section or case 6, and preferably near the bottom thereof. This spool or barrel has a spring 13 (see Figure 2) as a means for rotating it to wind the fastener thereon. The drawer 7 is cut away or opened to receive the spool or barrel, and said opening may be closed by means of a hood 14 secured to the inner side of the drawer, and as shown in Figure 3 of the drawings, and this hood may extend along a slot 15 to cover the same.

A guide is spaced from the bottom of the section 6 to guide the fastener and prevent it from catching upon the bottom of the bottom drawer, the front end of this guide 16 having a keeper 17 to receive the fastener, and a similar keeper 18 is formed on the front edge of each of the supports 9, and within which the fastener may be placed.

Each of the keepers has a locking slot 19 within which a bolt 20 from a lock 21 will engage. Said lock is secured to the fastener, preferably at its free end, which end may, therefore, be locked to any of the keepers, the link of the chain next to that having the lock preventing the fastener from being drawn upwardly sufficient to disengage it from the

keeper. The link of the chain to which the lock is secured will also present an obstacle to opening movement of the drawers immediately above and below the keeper to which the lock is fastened.

In addition to the locking slot 19, each of the keepers has an engaging slot 22 extending crosswise of the locking slot 19 and out at the end of the keeper, and as shown in Figure 7 of the drawings, so that the link 23 and the other links 24 of the chain located in the same plane may be readily inserted and engaged within the slots 22 by movement into said slots from the open ends thereof.

The links of the chain may be so arranged and located with respect to the keepers that the links 25, that are disposed in a plane transverse to the plane of the links 23—24 on opposite sides of each of the links 25, may be placed in a locking slot 19. In this operation the chain will be so positioned that links 24 may be inserted in the slots 22 endwise thereof, but with the link 23 out of position to enter its slot 22. By now moving the chain endwise to position the link 23 for engagement with its slot 22, the links 24 adjacent to the several keepers will be drawn laterally to the plane of the keepers into the locking slots 19, and the lock being now operated to engage the bolt 20 with its locking slot the chain will be secured against removal of the several links 25 from their locking slots and said chain will be secured and locked to each of the keepers and all of the drawers will therefore be locked against opening movement.

From this it will be seen that the bottom drawer and the drawer immediately above it may be separately locked while leaving the other drawers free for access whenever desired. The drawers in fact each comprises one form of a pocket that is opened and closed by opening and closing movement of the drawer, and it will be apparent therefore that my improved fastener may be applied to receptacles or pockets of different kinds.

In that form of structure embodying my invention, and as shown in Figures 8 to 12, the parts of the structure generally are the same as hereinabove described, the principal difference being in the form of the flexible fastener and the parts engaged thereby. In this case said fastener is more in the form of what may be termed a "sprocket chain" 26 comprising links 27 and cross bars 28. A lock support 29 is forked at its end within which forks the cross piece at the end of the chain is received, and a lock 30 having a locking bolt 31 is mounted in said support. The keepers 32 on the supports 9 have curved lips 33 to fit over the cross pieces 28 and as shown in Figure 10, and the space between the forks is such that the support 29 will substantially rest on the keeper on the top of the section 6 of the trunk when the cross piece 28 is engaged with the under surface of said keeper, and the other cross pieces are so arranged that one will be engaged with the under surface of each keeper when the lock is in position to secure the fastener 10 to lock all of the drawers, and as illustrated in Figure 9 of the drawings. Each of the keepers 32 has an opening 34 within which to receive the locking bolt 31 for the purpose of securing the support 20 to any of the keepers and thereby, in some instances, locking some of the drawers and releasing others.

In accordance with the provisions of the patent statutes I have described the principles of operation of my invention, together with the device which I now consider to represent the best embodiment thereof; but I desire to have it understood that the device shown is only illustrative, and that the invention may be carried out by other means and applied to uses other than above set out.

I claim—

1. A case having a plurality of pockets therein, a closure for each pocket, extensible means attached to the case and longitudinally movable across the closures of said pockets to lock them against access thereto, and means carried partly by the case and partly by the extensible means for securing the latter in different extended positions to lock any of said pockets.

2. A case having a plurality of pockets therein, a closure for each pocket, a flexible extensible fastener permanently attached at one end to the case and longitudinally movable across the closures of said pockets to lock them against access thereto, and means carried partly by the case and partly by the extensible fastener for securing the free end of the latter in different positions to lock any of said pockets.

3. A case having a plurality of pockets therein, a closure for each pocket, a longitudinally movable flexible fastener for locking said pockets against access thereto, means for securing said fastener in different positions to lock a single or a plurality of said closures, and means for automatically drawing the fastener into the case.

4. A case having a plurality of drawers therein, a longitudinally movable flexible fastener, securing means for a plurality of said drawers, said securing means being attached to said fastener, means for securing the free end of the fastener in different fixed positions, and means for automatically drawing the fastener into the case.

5. A case having a plurality of drawers therein, a longitudinally movable flexible fastener, securing means for said fastener for a plurality of said drawers, means for securing the free end of the fastener in different fixed positions, a spool rotatably mounted in the case, and means for automatically rotating the spool to draw the fastener within the case.

6. A case having a plurality of pockets

therein arranged substantially in a straight line, a closure for each pocket, a longitudinally movable flexible fastener attached at one end to said case and adapted to be extended across the closures of said pockets to lock them against access thereto, means for securing the fastener in different position to lock any of said closures, and means for automatically drawing the fastener into the case.

7. A case having a plurality of drawers slidably mounted therein, a longitudinally extensible flexible fastener permanently attached at one end to the case and adapted to be extended across the fronts of said drawers in their closed positions to prevent sliding movement thereof, and means for securing the free end of said fastener in different fixed positions to lock any of said drawers in their closed positions.

8. A case having a plurality of drawers slidably mounted therein, a longitudinally extensible flexible fastener permanently attached at one end to the case and adapted to be extended across the fronts of said drawers in their closed positions to prevent sliding movement thereof, and a key controlled lock secured to the free end of said fastener and having means for locking said fastener in different positions to said case to secure any of said drawers in their closed positions.

9. A case having a plurality of drawers slidably mounted therein, a longitudinally movable flexible fastener permanently attached at one end to the lower portion of the case and movable lengthwise across the fronts of said drawers in their closed positions to prevent sliding movement thereof, means for securing said fastener intermediate its ends to lock different drawers against opening movement, and means for securing the free end of the fastener to any one of said former means or to the upper portions of the casing to prevent opening movement of a portion or all of the drawers.

10. A case having a plurality of drawers therein, a longitudinally movable flexible fastener permanently attached at one end to the case and extensible across the fronts of said drawers in their closed positions to prevent sliding movement thereof, means located on the opposite edges of all of the drawers to engage said fastener and lock it to the case, and means for securing the free end of the fastener to either of the former means to lock any of said drawers in their closed position.

11. A case having a plurality of drawers therein, a longitudinally movable flexible fastener permanently secured at one end to the case, keepers located on said case, interengaging means between the keepers and fastener to lock the latter against movement in all but one direction between adjacent drawers, and means for securing the free end of the fastener to lock the latter against movement in said one direction for holding said drawers in their closed position.

12. A case having a plurality of drawers therein, a longitudinally movable flexible fastener permanently secured at one end to the case, keepers located on said case, means on the keepers and fastener for interengaging and locking them by an endwise movement of the fastener, and means for securing the free end of the fastener to any of said keepers to lock any of the drawers in their closed position.

13. A case having a plurality of drawers therein, a longitudinally movable flexible fastener comprising a chain permanently secured at one end to the case and comprising links disposed in sets differently relatively arranged, keepers having means to receive the members of one set of links for automatic engagement, means on the keepers to receive the members of another set of links for locked engagement of said fastener, and means for securing the free end of the fastener to lock any of said drawers in their closed position.

14. Securing means for a closure comprising extensible means arranged at one edge of said closure, means for securing said extensible means against undesired extension, and means for securing the free end of the extensible means at the opposite edge of the closure, said last mentioned means including a keeper and a key actuated bolt movable into and out of locking engagement with said keeper.

15. Securing means for a closure comprising extensible means arranged at one edge of said closure, means for securing said extensible means against undesired extension, and means for securing the free end of the extensible means at the opposite edge of the closure, said last mentioned means including a keeper, a link carried by the extensible means movable into and out of engagement with the keeper, and a bolt supported by the link and movable into and out of engagement with the keeper to selectively prevent disengagement of the link from the keeper.

16. Securing means for a closure comprising a flexible member, means at one edge of the closure for holding the flexible member against lengthwise movement in one direction, and means at the opposite edge of the closure for holding the flexible member against lengthwise movement in the opposite direction, said last mentioned means comprising a keeper, a link carried by the flexible means movable into engagement with the keeper, and a bolt supported by the link and movable into and out of engagement with the keeper to selectively prevent disengagement of the link from the keeper.

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