

March 29, 1932.

C. SPANGENBERG, SR

1,851,876

LOCKING DEVICE

Filed July 7, 1930

2 Sheets-Sheet 1

Fig. 1.

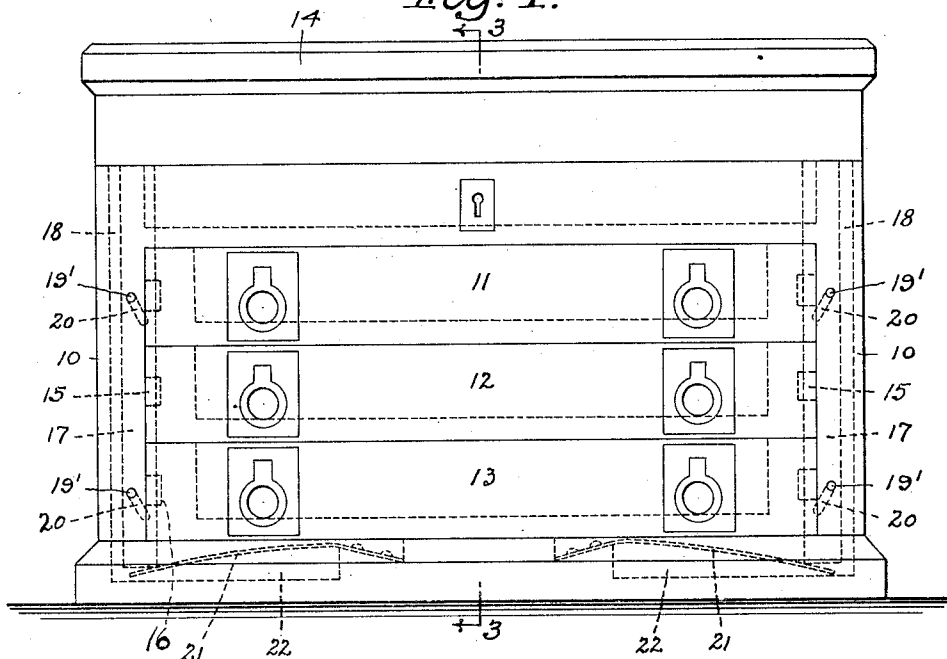
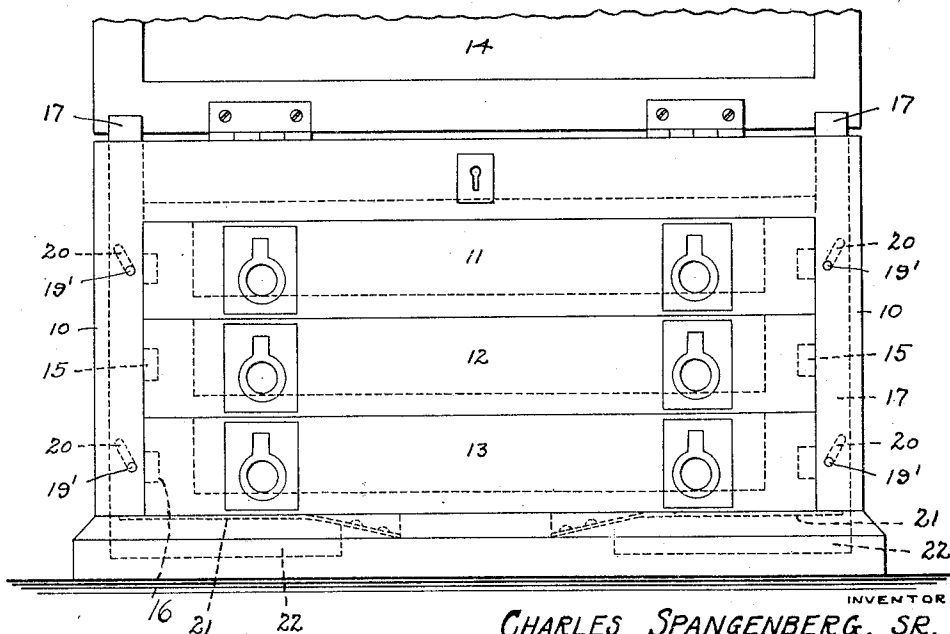


Fig. 2.



INVENTOR
CHARLES SPANGENBERG, SR.

BY *Victor J. Evans*
ATTORNEY

WITNESS:

Lee Smith

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Fig. 3.

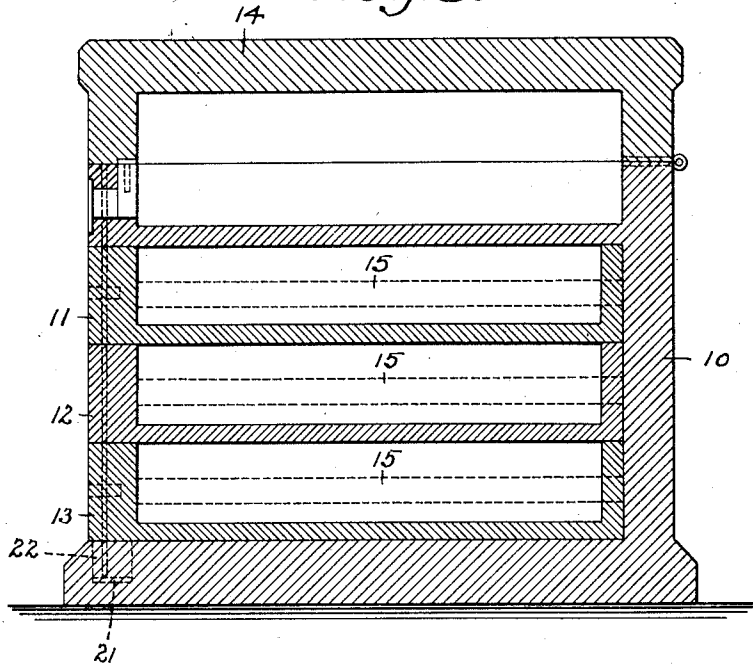


Fig. 4. Fig. 7. Fig. 5.

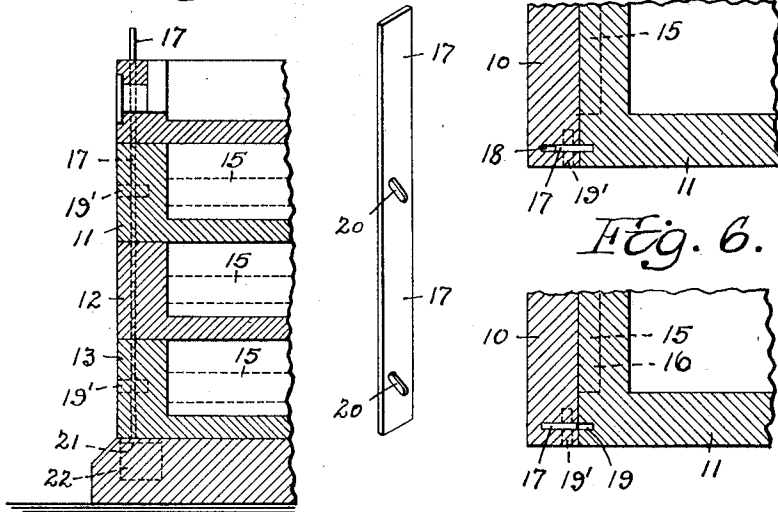


Fig. 6.

INVENTOR

CHARLES SPANGENBERG, SR.

BY Victor J. Evans

ATTORNEY

WITNESS:

Lee Smith

UNITED STATES PATENT OFFICE

CHARLES SPANGENBERG, SR., OF PESHTIGO, WISCONSIN

LOCKING DEVICE

Application filed July 7, 1930. Serial No. 466,224.

This invention relates to new and useful improvements in locking devices for use upon cabinet drawers and trays.

One of the principal objects of the invention consists of locking elements for engaging the drawers or trays from the side.

Another object of the invention contemplates the provision and arrangement of lid engaging means for the locking element to facilitate locking of the drawers or trays upon the occasion of the lid being shifted to occupy a closed position.

With the above and other objects in view, the invention further consists of the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claim.

In the drawings:—

Figure 1 is a front elevation of the present invention.

Figure 2 is a view similar to Figure 1 with the lid or closure shifted to occupy an open position.

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

Figure 4 is a fragmentary sectional view taken through the invention showing the locking means released.

Figure 5 is a detail sectional view showing the locking members in operative position.

Figure 6 is a view similar to Figure 5 with the locking members released.

Figure 7 is a perspective view of one of the locking elements.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the reference character 10 indicates generally a form of cabinet having a multiplicity of drawers or trays 11, 12 and 13 and a closure lid 14. Guide members or supports, such as indicated at 15, arranged in spaced parallelism upon the inner sides of the cabinet, are designed for accommodation within raceways 16 in the end walls of the respective trays or drawers. The locking elements, alluded to in the foregoing, are in the nature of relatively flat elongated plates 17 positioned within slots 18 in the cabinet body and through which said plates may be shift-

ed for accommodation within slots 19 in the adjacent portions of the respective slides, trays or drawers. Only two of these plates or locking elements are needed for the locking of all three drawers from both ends. Pin members 19', carried by the cabinet body and projecting through the slots 18, are also passed through upwardly and outwardly inclined openings 20 in the plate members 17 to serve the combined purpose of limiting shifting motion of the plate members and to facilitate guiding of the locking elements to occupy either of their respective positions shown in Figures 5 and 6. Spring members 21, carried within the base or bottom for the cabinet and flexing within compartments 22, especially provided for the purpose, are designed for contacting engagement with the lowermost ends of the plate members or locking elements to normally induce the latter to occupy the positions shown in Figure 2.

As suggested in Figures 1 and 3 of the drawings, the lid or closure 14 upon being swung to occupy a closed position will engage the uppermost protruding ends of the plate members or locking elements and shift the latter downwardly and inwardly, against the tension of the spring elements 21 whereby the innermost portions of the plate members or locking elements will be disposed within the slots or pockets 19 in the ends of the respective slides, trays or drawers.

Although I have shown and described my invention upon a cabinet of this character, it is obviously understood that I do not limit the invention to this particular instance of its application, inasmuch as a locking device of this character could be equally and effectually as well applied upon wardrobe trunks, chests of drawers and the like.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claim.

Having described the invention, what is claimed is:

Means for locking a set of drawers in a case comprising pins located in the side of the case, a bar having slots disposed at an acute

angle to the longitudinal dimension thereof,
said slots receiving said pins and being in-
clined downwardly toward the side edges of
the drawers, the drawers being provided at
5 their side edges with recesses adapted to re-
ceive the edge portion of said bar, a spring
located in the case below the set of drawers
and bearing against the lower end of said
bar to normally hold the upper end of the bar
10 above the upper edge of the case and to hold
the edge of the bar away from the recesses
in the drawers and a lid for the case adapted
when closed to move the bars in a downward
direction, whereby the pins and slots shift
15 the bars into the recesses of the drawers.

In testimony whereof I affix my signature.

CHARLES SPANGENBERG, Sr.

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