

BOOKCASE.

APPLICATION FILED SEPT. 22, 1913.

1,120,050.

Patented Dec. 8, 1914.

Fig. 1.

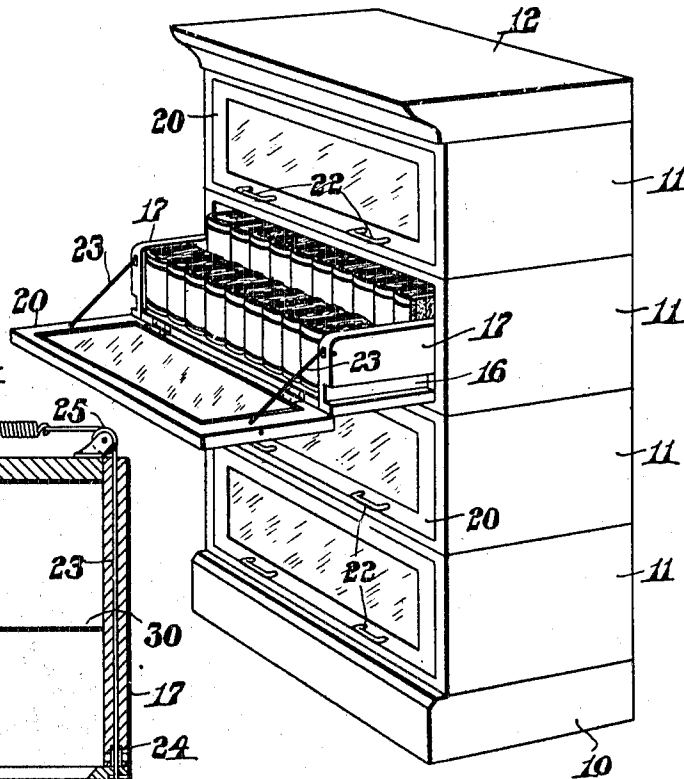


Fig. 4

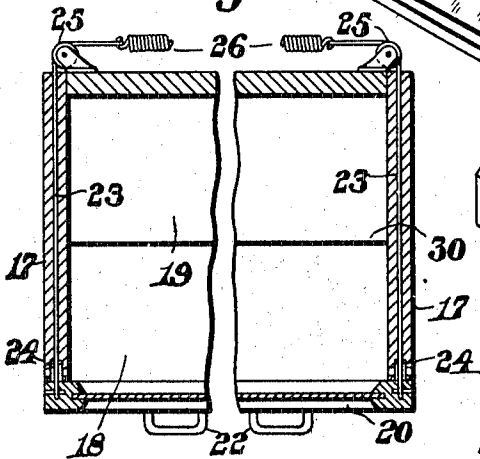


Fig. 2.

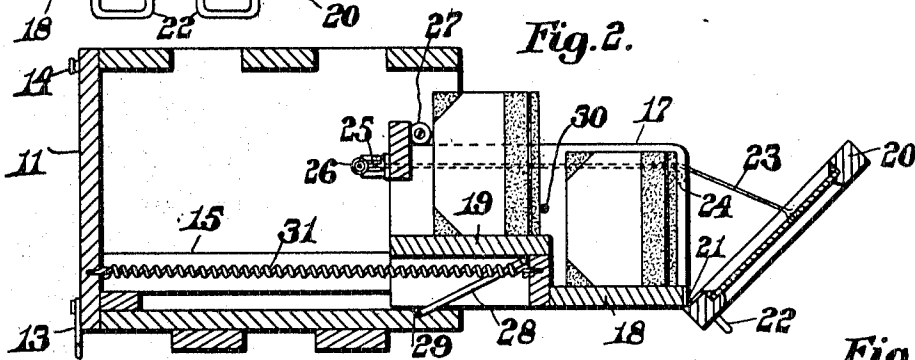


Fig. 3.

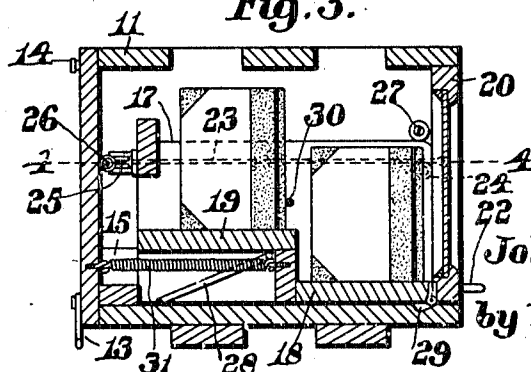
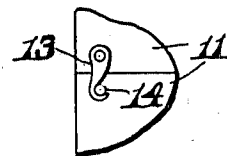


Fig. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

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BOOKCASE.

1,120,050.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN E. GOGGIN, a citizen of the United States of America, and a resident of Salem, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Bookcases, of which the following is a specification.

This invention relates to bookcases and similar cabinets, and has for its object the production of a device of this class that will have greater capacity than the ordinary cabinet without materially increasing the size thereof.

The invention consists in providing a slidable frame having two or more shelves at different levels and in different vertical planes, whereby books or other articles may be disposed upon the various shelves in rows and articles on the rear shelves may be seen over the tops of those in front.

The invention further consists in certain novel features of construction and arrangement of parts which will be fully understood by reference to the description of the drawings and to the claims hereinafter given.

Of the drawings: Figure 1 represents a perspective of a stack of book-case units embodying the features of the present invention. Fig. 2 represents a transverse vertical section through one of said units with the interior sliding frame moved outwardly. Fig. 3 represents a similar view with the sliding frame within the casing. Fig. 4 represents a horizontal section of same, the cutting plane being on line 4-4 on Fig. 3, and Fig. 5 represents an elevation of one of the devices for locking the units together.

Similar characters designate like parts throughout the several figures of the drawings.

In the drawings, 10 is a base on which is superimposed a plurality of book-case units 11 surmounted by a top unit 12. These units and base portion are all preferably secured together at the rear by means of the hook members 13 pivoted to one member and each engaging a pin 14 on another member. The interior side walls of each unit 11 have extending inwardly therefrom the guide rail 15 extending into a groove 16 with a sliding frame 17. This sliding frame 17 is provided with two shelves 18 and 19, the latter being in the rear of the

shelf 18 and raised above the same, as clearly indicated in Figs. 2 and 3 of the drawings. Each shelf 18 and 19 is adapted to support a plurality of books, the titles of those upon the shelf 19 being exposed to view over the tops of the books on the shelf 18.

A door 20 is pivoted at 21 to the front edge of the shelf 18, this door being provided with pull members 22 by which the sliding frame 17 may be moved along the guide member 15 so that the books on either shelf 18 and 19 may become accessible. The door 20 has secured thereto at each end a flexible member 23 passing over a pulley 24 in one of the side members of the frame 17, this flexible member 23 extending through a hole in said side member as indicated in Fig. 4, and over a sheave 25 secured to the rear side of the sliding frame 17. The inner ends of the flexible members 23 are connected together by means of the spring 26, the tension of which normally retains the doors 20 in closed position as indicated in Fig. 3 of the drawings.

The inner side walls of the units 11 have revolubly mounted thereon the rollers 27 bearing against the upper edge of the side members of the frame 17. These members 27 bearing against the upper edge of the frame 17 assist in sustaining the weight of the books or other articles upon the shelves 18 and 19 when the sliding frame is extended beyond the front frame of the unit 11, as shown in Fig. 2. Pivoted beneath the shelf 19 is a bail 28 which is adapted to engage with the shoulder 29 in the lower inside wall of the units 11, thus permitting the strut or bail to assist in sustaining the weight of the books when the sliding frame 17 is in the position indicated in Fig. 2 of the drawings. A rod or other guide member 30 is interposed between the side walls of the frame 17 and assists in registering the books upon the rear shelf 19. When it is desired to close a unit the operator lifts and disengages the strut 28 from the shoulder 29 and permits the spring 31 to return the frame 17 into its normal position within the unit 11, as indicated clearly in Fig. 3 of the drawings. The spring 26 closes the door 20 and prevents any dust from entering the interior of the unit. By this means a much greater capacity of book case is provided without materially increasing the size of the various units.

It is believed that many advantages of

the invention will be fully understood from the foregoing description.

Having thus described my invention, I claim:

- 5 1. In a device of the class described, the combination of a casing; a sliding frame therein having an open front and top and provided between the sides thereof with a plurality of horizontal unobstructed shelves
10 permanently positioned relative to each other at different elevations, those in the rear being higher than those in front; and a door hinged to the front of and movable with said sliding frame and adapted to close
15 said casing when said frame is contained therein, the hinge pivot being in the same plane with the under face of said sliding frame.
- 20 2. In a device of the class described, the combination of a casing; a horizontally sliding frame therein; means for limiting the forward movement of said frame; and struts pivoted to the under side of said sliding frame and normally within said casing for
25 supporting the weight of said frame when extended beyond the front of the casing, the free end of said struts being adapted to engage shoulders on the bottom of said casing.
- 30 3. In a device of the class described, the combination of a casing; a sliding frame therein having three side walls and an open front and top; a door hinged to the front edge of the bottom of said sliding frame; a

flexible member attached to the door and ex- 35
tending to the rear of said sliding frame; and means at the rear of and movable with said sliding frame and secured to the rear end of said flexible member for retaining said door normally closed. 40

4. In a device of the class described, the combination of a casing; a sliding frame therein having three side walls and an open front; a door hinged to said sliding frame; flexible members attached to opposite ends 45
of said door and extending through holes in the side walls of said sliding frame to the rear thereof; and a coiled spring movable with said frame and interposed between and secured to the rear ends of said 50
flexible member.

5. In a device of the class described, the combination of a casing; a sliding frame therein having three side walls and an open front and top; a door hinged to the front 55
edge of the bottom of said sliding frame and adapted to close said open front; a coiled spring at the rear of and movable with said sliding frame; and connecting members interposed between the opposite ends of said 60
spring and said door.

Signed by me at 4 Post Office Sq., Boston, Mass., this 19th day of September, 1913.

JOHN E. GOGGIN.

Witnesses:

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