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O. E. FREDIN

2,016,194

SHELVING DEVICE

Filed May 21, 1934

Fig. 1.

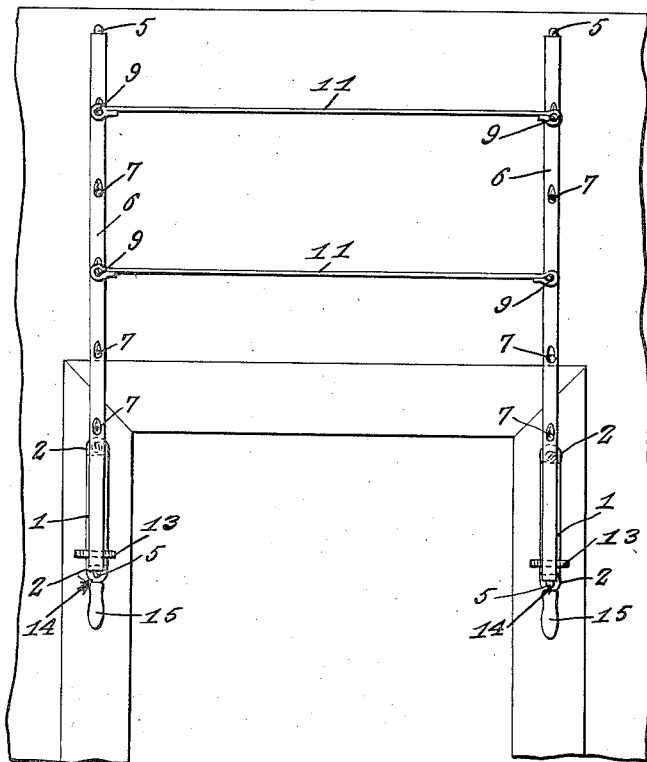


Fig. 2.

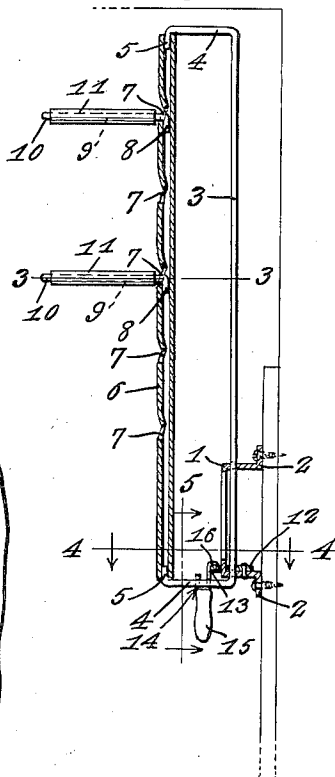


Fig. 3.

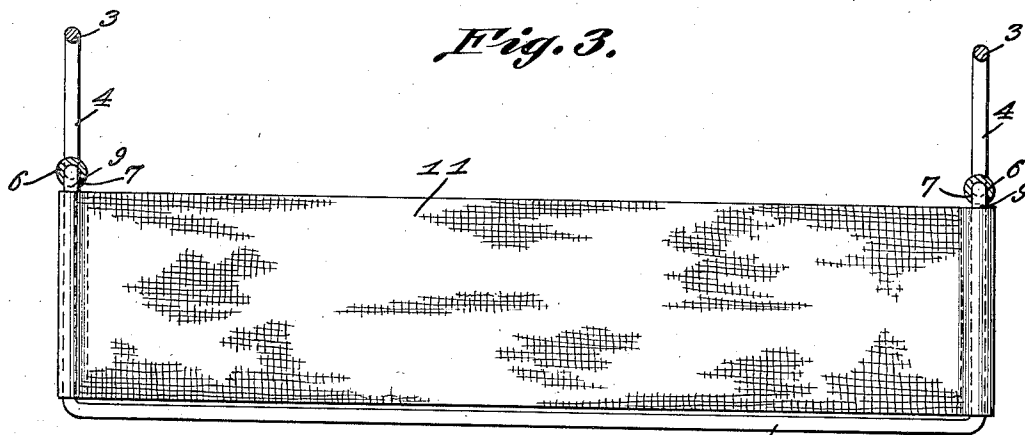


Fig. 4.

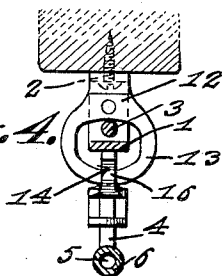
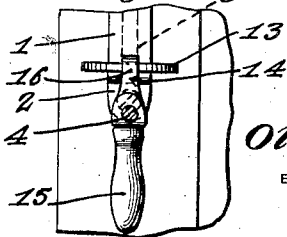


Fig. 5.



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UNITED STATES PATENT OFFICE

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SHELVING DEVICE

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5 Claims. (Cl. 211—90)

This invention relates to shelving, and its general object is to provide a shelving device that is primarily designed for use in clothes closets and the like where space is limited, as it includes adjustable shelf carrying means mounted for movement, so that the shelves can be elevated to an out of the way position within space that is generally wasted, and in an easy and expeditious manner and retained accordingly, and of course the device can be lowered within convenient reach of the user.

Another object of the invention is to provide a shelving device that includes shelf carrying means that is capable of detachably receiving shelves and which are adjustable thereon.

A further object of the invention is to provide a shelving device that is simple in construction, inexpensive to manufacture, easy to install, and extremely efficient in use and service.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a front view of my shelving device applied to the inner side of the frame of a closet door.

Figure 2 is an end view thereof with parts in section.

Figure 3 is a sectional view taken approximately on line 3—3 of Figure 2.

Figure 4 is a sectional view taken approximately on line 4—4 of Figure 2, looking in the direction of the arrows.

Figure 5 is a sectional view taken approximately on line 5—5 of Figure 2, looking in the direction of the arrows.

Referring to the drawing in detail, it will be noted that I have illustrated my shelving device as applied to the inner frame of a closet door for disposal within a closet, but of course the device can be applied to any place desired, in order to utilize space which is generally wasted.

The device includes a pair of brackets 1 which are similar in construction and are substantially U-shaped in configuration, with apertured ears 2 formed on the horizontal arms thereof for the purpose of receiving securing means such as screws for fixedly associating the brackets in

position for use and as shown in the drawing, to the sides of the door frame.

The horizontal arms are provided with slots arranged to register with each other for slidably receiving what may be termed carrier rods 3, there being a rod for each bracket, and the rods have their end portions bent to provide horizontal arms 4 which terminate in inwardly directed ends 5 disposed in superposed relation with respect to each other as clearly shown in Figure 2.

Each of the carrier rods has mounted thereon a tube 6 which receives the inwardly directed ends 5 and the tubes have openings 7 punched therein at equi-distantly spaced intervals throughout the length thereof for the purpose of receiving the downturned ends 8 of the arms 9 of substantially rectangular frames 10 so that the frames will be disposed in a horizontal position as clearly shown in Figures 1 and 2 of the drawing. The frames receive strips 11 of fabric, that are provided with hems in the ends thereof to threadedly receive the arms 9, with the result the frames and strips 11 constitute shelves which are not only detachably associated with the tubes 6, but are adjustable thereon so that the space between the shelves can be regulated as will be apparent.

Secured to the lower horizontal arm of each of the brackets 1 is what I term a lock plate 12 and which includes a ring like portion 13 that extends around the vertical portions of the brackets 1 as best shown in Figure 4, for a purpose which will be presently apparent. Secured to the lower horizontal arms 4 of the carrier rods 3 are hook members 14 that have secured to and depending therefrom handles 15 and which include hooks 16, the latter being adapted to be received by the ring like portions 13 of the lock plates as best shown in Figure 2 of the drawing for holding the device in elevated position.

From the above description and disclosure of the drawing, it will be obvious that I have provided a shelving device that is primarily designed for use in space that is generally wasted, as the shelf carrying means which includes the rods 3 and tubes 6 are capable of being disposed to an elevated position and held accordingly through the instrumentality of the lock plates 12 and hooks 16. Due to the fact that the lock plates 12 include ring like portions, it will be apparent that the hooks can be applied to the ring like portions throughout the peripheries thereof, and such makes it possible for the device to be secured to door frames of various

widths. Of course, when it is desired to apply or remove articles with respect to the shelves, they are lowered so that ready access may be had thereto.

5 It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim:

1. A shelving device comprising brackets, carriers slidably mounted with respect to said brackets and including rods, tubes mounted on said rods and having openings arranged therein, shelves including frames detachably received in said openings for adjustable association with the rods, and means for securing the carriers in an elevated position.

2. A shelving device comprising a pair of brackets including horizontal arms having openings arranged therein, carriers including rods mounted for vertical slidable movement in said openings, tubes secured to the rods, shelves including frames detachably secured to the tubes and adjustable thereon, means for securing the carriers in an elevated position, and handles connected to the carriers.

3. A shelving device comprising a pair of

brackets including horizontal arms having registering openings, carriers including rods mounted for vertical slidable movement through the openings, tubes received by the rods and having equi-distantly spaced openings disposed therein, shelves including frames detachably received in the last mentioned openings for adjustable association with the rods, means for securing the carriers in an elevated position, and handles for moving the carriers and secured to said means.

4. A shelving device comprising a pair of brackets, carriers slidably mounted for vertical movement through said brackets, shelves detachably secured to the carriers, plates including ring like portions secured to the brackets, hooked means secured to the carriers and adapted to be received by the ring like portions for holding the carriers in an elevated position, and handles for moving the carriers and secured to the hooked means.

5. A shelving device comprising brackets, carriers mounted for vertical slidable movement on said brackets and connected thereto, shelves including frames detachably secured to the carriers and adjustable thereon, strips of fabric having hems therein to receive the frames for cooperation with the latter to provide the shelves, and means for securing the carriers in an elevated position.

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