May 24, 1949. W. E. RANDALL 2,470,749

ROTATABLE SHELF

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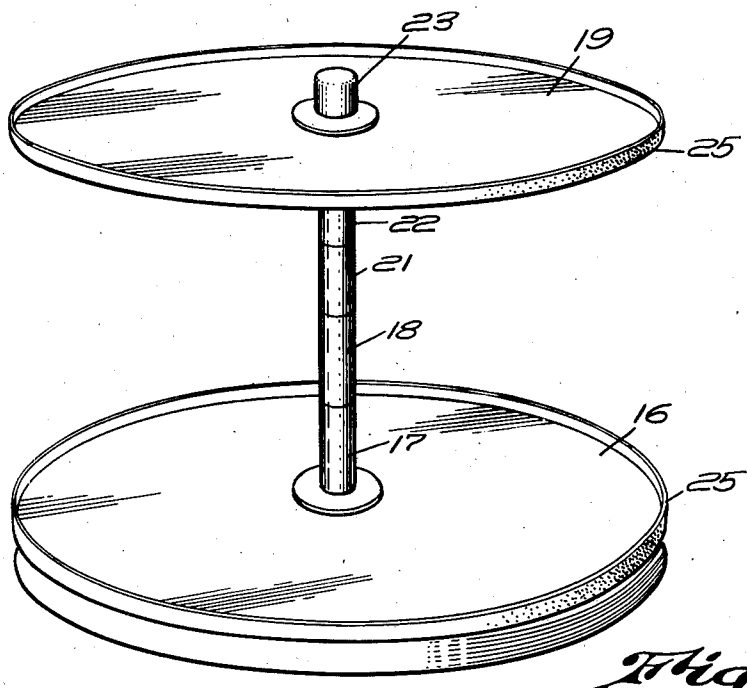

Fig. 1.

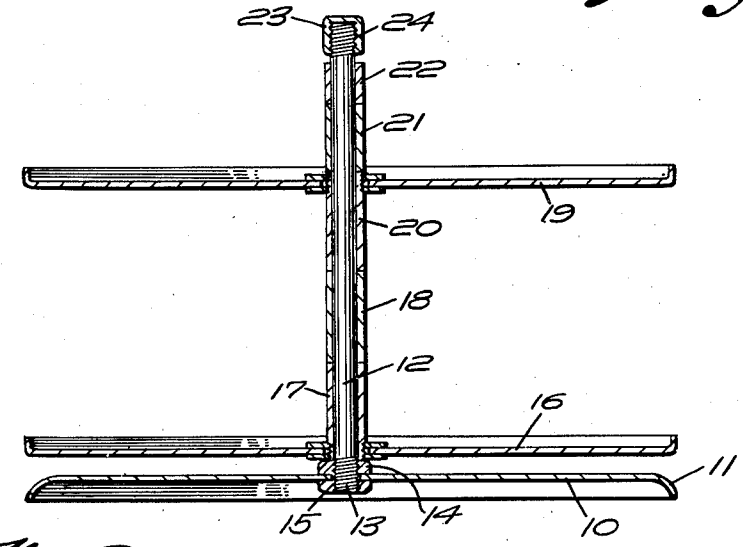

Fig. 2

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ROTATABLE SHELF

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1 Claim. (Cl. 211—146)

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This invention relates to a supporting structure such for instance as a shelf which may be positioned in a cupboard for supporting groceries, condiments, and the like in a stored relation.

Usually a closet is so arranged that a person cannot readily reach all the articles, some of which may be positioned at the back of the closet and thus the entire volume of the closet is not utilized to best advantage.

One of the objects of this invention is to provide a shelf which may be moved so as to cause its contents to be readily available at all positions and thus one which when located in the closet will cause the entire contents of the closet to be readily accessible.

More specifically this invention relates to a supporting shelf which may be rotated to present the contents of the shelf at an accessible point for removing the same from the shelf.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings:

Fig. 1 is a perspective view of the supporting structure;

Fig. 2 is a central sectional view showing the shelves differently arranged.

In proceeding with this invention, I have provided a base upon which there is mounted a plurality of shelves, each rotatable about a spindle extending upwardly from the base. The shelves may be spaced different distances apart by reason of sleeves which are located on the spindle and provide an adjustable spacing for the shelves.

With reference to the drawings, 10 designates a base upon which the supporting structure rests. This base is curved at its peripheral marginal edge as at 11 so as to space the bottom thereof above the support on which it rests. A spindle 12 extends upwardly from the base and is secured thereto by means of threads 13 and nuts 14 and 15 on either side of the bottom wall 10 of the base.

A shelf 16 has a collar 17 which is fixed thereto by means of washers threadedly received on one end of the collar and with the washers positioned one on each side of the shelf so as to bind the shelf and collar to each other. The collar forms a long bearing for the shelf to rotatably mount it on the spindle 12. The collar rests upon the nut 14 as shown in Fig. 2 to position it on the

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spindle. A sleeve 18 is positioned upon the collar 17 and a second shelf 19 having a collar 20 fixed thereto as before described is rotatably mounted on the spindle 12 with the lower edge of this collar 20 engaging the sleeve 18 to support it in position. Further sleeves 21 and 22 are positioned above the shelf 19 and a nut 23 is positioned on the threaded end 24 of the shaft 12 to hold the parts assembled.

In some cases, it is desirable to vary the spacing of the shelves from that shown in Fig. 2 and I have shown in Fig. 1 the sleeves 21 and 22 positioned beneath the shelf 19 so as to provide a different arrangement and greater spacing of the shelves. Inasmuch as the sleeve 22 is of about half the axial extent of the sleeves 21 and 18, a variety of spacings may be had by variously positioning the sleeve on the spindle 12, either above or below either one of the shelves which are there provided. Various articles may be positioned on either of these shelves which are retained therein by upturned rims 25 and the shelves may be rotated so as to bring the article carried thereby into accessible position for one using the device.

I claim:

A supporting structure comprising a base, a spindle extending upwardly from said base, a plurality of sleeves of different axial extent removably and rotatably mounted on said spindle one upon the other upwardly from the base, at least one of said sleeves serving as a hub for a shelf carried thereby and extending therethrough and collars on both sides of the shelf threadedly secured to the hub, said hub providing a bearing for rotatable mounting on a spindle whereby the shelf may be adjustably positioned for rotation about the spindle with reference to the base by selecting the order of arrangement of the sleeves with reference to the base.

WALDO EMERSON RANDALL.

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