March 16, 1926. 1,576,784

F. E. PLANETT

ANTPROOF SHELVING

Filed March 23, 1925

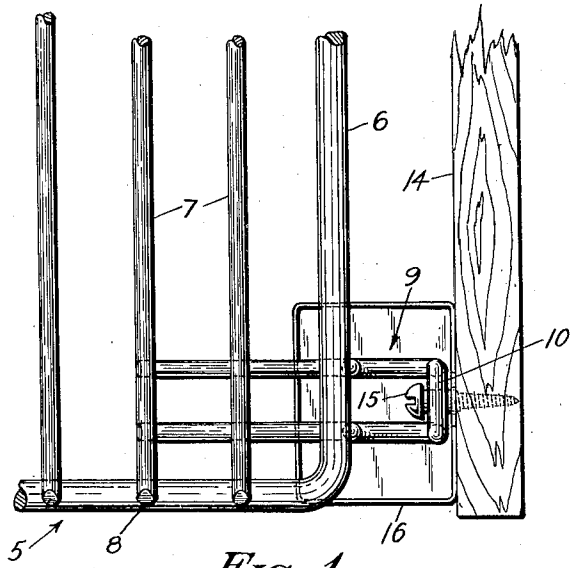


FIG. 1

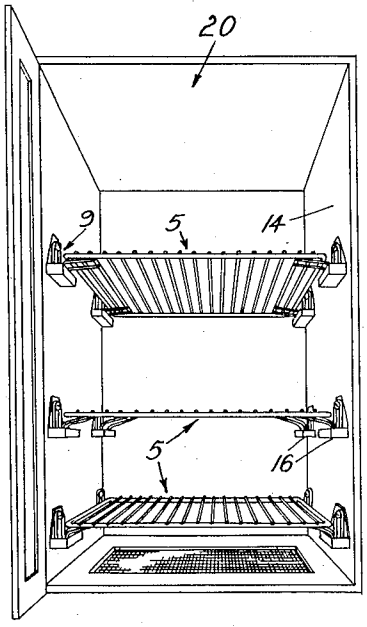


FIG. 3

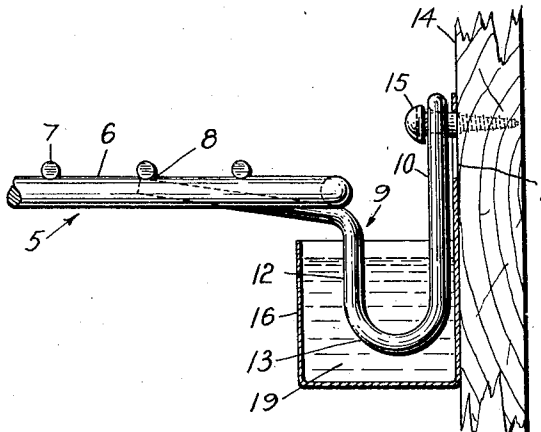


FIG. 2

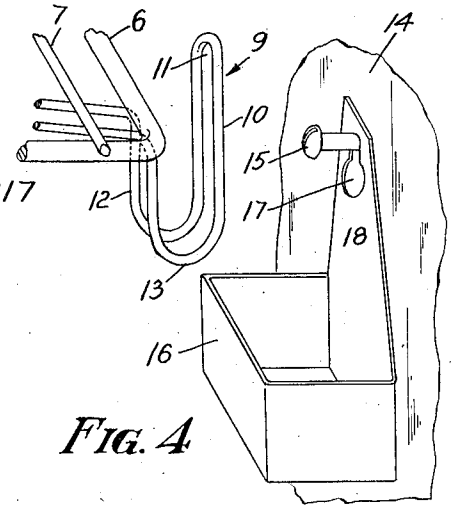


FIG. 4

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UNITED STATES PATENT OFFICE.

FRED E. PLANETT, OF OAKLAND, CALIFORNIA.

ANT-PROOF SHELVING.

Application filed March 23, 1925. Serial No. 17,502.

To all whom it may concern:

Be it known that I, FRED E. PLANETT, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Ant-Proof Shelving, of which the following is a specification.

My invention relates to ant proof devices, and more particularly to ant proof shelving for coolers and the like objects.

In many sections of the country ants and other crawling insects are more or less of a pest the whole year, and precautions must be continually taken to prevent them from encroaching on food closets, on shelves, and other places where it is desired that such pests shall keep off. I am aware of many contrivances aimed to prevent ants from trespassing where not desired, but such devices are inefficient, unsanitary, impractical and difficult to install and often difficult to remove.

The general objects of my invention are: The provision of an extremely sanitary shelf of wire having an unimpeded upper surface for the placement of dishes, containers of food, or other articles; to provide the shelf with overhanging wire brackets adapted to be bent toward or from the shelf to change its dimension to fit within the cooler or allotted space; to provide each of the brackets with an opening to removably suspend the shelf on common pin means secured to the vertical wall supports; to provide containers for liquids repugnant to ants and which are adapted to surround and immerse the lower end of each bracket in the liquid, and the said container adapted to be supported on the same pin means provided for the brackets.

With the above and other objects in view, my invention consists in certain novel features of construction, form and arrangement of elements. The accompanying sheet of drawings forming a part of this specification, illustrates an embodiment of my invention, and what I claim as new, is particularly pointed out in the appended claims following the specification.

Figure 1 of the drawings is a partial plan of my invention positioned as in use, and Fig. 2 is an elevation of it with the container in midsection.

Fig. 3 is a perspective view of a cooler having my shelving applied thereto ready for service; and

Fig. 4 is a view in perspective, of a bracket and container disassociated from each other to clearly show the respective openings for supporting each on the pin means.

Adverting to the figures I will now describe them in detail: The numeral 5 represents the shelf in general, and it is preferably a rust-proof all wire structure, consisting of a frame 6 of suitable gage having cross-wires 7 of lighter gage spaced on one side thereof and attached thereto as by spot welding 8. This structure forms a neat, strong and sanitary shelf.

To the underside of the shelf, and preferably at each corner, I integrally attach, as by spot welding for example, brackets represented in general by 9. Each bracket is formed of wire and shaped so as to present a looped side 10, Fig. 4, having an eye or opening 11 at its top and an opposite shorter side 12. The two sides are joined by a bottom curvature 13 presenting a U-shaped bracket or hanger. This length of curvature also determines the overhang distance of the brackets, which I prefer shall be sufficient to freely admit the fingers between the wall 14 and the frame 6 to easily remove the shelf at will. The long limb 10 of the bracket extends above the shelf so one can visibly place it over the screw 15 or other pin means anchored in the wall 14.

To the just recited pin means 15 is previously hung in suspension a container 16 preferably of suitable sheet material, having an opening 17 in the extension of one of its walls 18. The said opening is of ample size to permit the container to be easily removed from the screw for filling the same, cleaning it, or for any other purpose. The container is of a size and depth sufficient to surround the major portion of the lower part of the bracket but not to touch the end of the same. It is to be observed that the shorter limb 12, Fig. 2, is isolated from the surrounding walls of the container when the shelf device is assembled.

19 indicates any liquid or repugnant substance such as coal oil, obnoxious to ants and which will drive the ants and other insects back and thus leave the shelf and foods thereon intact from invasion.

My shelving offers the housewife a simple and practical solution to the ant problem, and also enables her to conveniently remove the shelf and containers with but little effort and practically no skill.

A further meritorious feature of my shelf is one effecting the contractor or carpenter. As is well known, coolers 20 or the like are of nominal dimensions, and my U-shaped flexible wire brackets can be bent toward or from the shelf to compensate for the varying widths of the coolers; thus a considerable dimension one way or the other can be altered to make the desired fit in the cooler.

In the drawings, I have shown only one specific form of my invention, and it is to be understood that the invention may be embodied in other forms, each being a species of my invention.

What I claim as new and desire to secure by Letters Patent of the United States, is the following:

1. An ant proof shelf device, comprising a shelf having brackets secured thereto, containers adapted to inclose the lower part of said brackets, and said brackets and containers adapted to be supported in hanging relation so that the ends of the brackets are out of contact with the respective containers.

2. An ant proof shelf device, comprising a shelf having brackets secured thereto, containers adapted to inclose the lower part of said brackets, and said brackets and containers adapted to be supported in hanging relation, so that the ends of the brackets are out of contact with the respective containers and pin means for the supportment of said brackets and containers in juxtaposition thereon.

3. An ant proof shelf device, comprising a shelf having hangers attached thereto, containers adapted to surround the lower part of said hangers, and means for supporting the said hangers and containers; each of the hangers being U-shaped with the lower part thereof below the shelf and the upper part above the shelf, and said upper part provided with an eye to receive the said supporting means, and the top part of each of the containers also provided with an eye to receive the same supporting means, and each container being of such depth so as not to contact the end of the hanger.

4. In an ant proof device, a shelf having overhanging brackets as an integral part thereof, said brackets being U-shaped and having the major part thereof positioned below the shelf whereby the free limb of each bracket may be bent toward or away from the shelf to shorten or lengthen the overall dimension for the purpose set forth.

5. An ant proof shelf device, comprising an all wire shelf having at each corner thereof an overhanging wire bracket, part of the bracket being below the shelf and the other part above the shelf, and said last-named part provided with an opening, containers each having a walled extension and said extension provided with an opening adapted to register with said first-named opening, and means adapted to be inserted through said openings to support the device in suspension, the container being below the shelf and adapted to house the lower part of the bracket but not in contact with the end of said lower part.

6. An ant proof device of the character described, comprising a wire frame having spaced cross-wires attached thereto to form the shelf of the device, wire brackets attached to the underside of the shelf at spaced intervals along its edge, said brackets overhanging the shelf and the overhanging part consisting of a short limb and a long limb, a container for each of said brackets, means for supporting the containers and long limbs in pairs, and the short limbs adapted to be immersed in liquid held by the container.

7. In combination with a cooler or the like, ant proof shelving consisting of a gridded shelf of less dimension than the width of the cooler, overhanging flexible brackets attached to the shelf to approximate the width of the cooler, screws in the cooler to removably hang the brackets thereon, containers adapted to be removably hung on the same screws one for each bracket, and each container adapted to receive a liquid to immerse and isolate a portion of the bracket from the walls of the container, the spaced dimension of the overhanging bracket being such as to freely admit the fingers between the shelf and the cooler walls to remove the shelf at will, and said flexible brackets adapted to be bent toward or from the shelf to accommodate the width of the cooler.

In testimony whereof I affix my signature.

FRED E. PLANETT.