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J. H. MEREDITH
ROLLER BRACKET FOR ROUND REFRIGERATOR
OR CABINET SHELF
Filed June 1, 1945

2,459,446

Fig. 1.

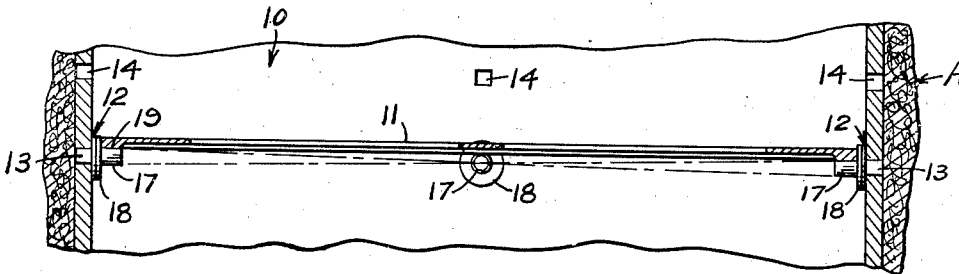


Fig. 2.

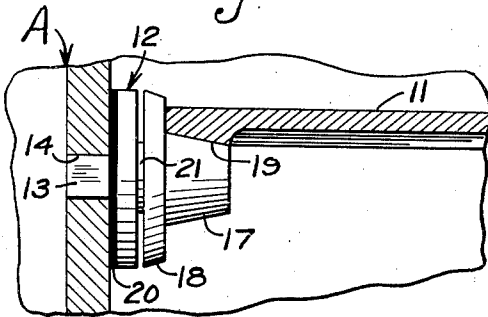


Fig. 3.

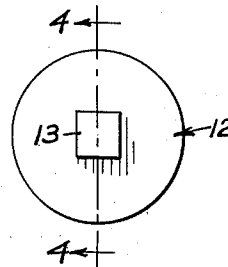


Fig. 4.

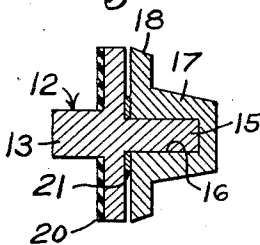
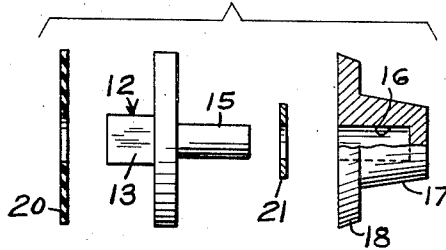


Fig. 5.



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UNITED STATES PATENT OFFICE

2,459,446

ROLLER BRACKET FOR ROUND REFRIGER-
ATOR OR CABINET SHELF

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Application June 1, 1945, Serial No. 597,105

1 Claim. (Cl. 308—231)

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The invention relates to a roller bracket, and more especially roller shelf brackets, adaptable to refrigerators, or other enclosures.

The primary object of the invention is the provision of a bracket of this character, wherein on the installment within a refrigerator, the shelf thereof can be freely and conveniently shifted into place or removed with ease and dispatch, the bracket when fitted within a round refrigerator enables the shelf to be rotated, thereby bringing articles held therein into convenient and easy reach.

Another object of the invention is the provision of a bracket of this character, wherein it has roller action, thereby eliminating wear on the shelf on the sliding thereof, the bracket, in its entirety, being removable, so that the enclosure can be thoroughly cleaned for sanitation, as well as the bracket itself, and the shelf.

A further object of the invention is the provision of a bracket of this character, wherein its roller is slipped into place, while the bracket proper is held in a seat, and the shelf holds these in place, so that such shelf can be moved with the least possible resistance for the handling thereof with ease and dispatch.

A still further object of the invention is the provision of a bracket of this character, which is simple in construction, readily and easily applied and removed, thoroughly reliable and efficient in operation, strong, durable, requires no fasteners for the mounting thereof, and inexpensive to manufacture and install.

With these and other objects in view the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawing, which shows the preferred embodiment of the invention, and pointed out in the claim hereunto appended.

In the accompanying drawing:

Figure 1 is a fragmentary vertical sectional view through a circular refrigerator showing the bracket constructed in accordance with the invention applied for supporting a shelf.

Figure 2 is an enlarged fragmentary vertical sectional view showing the mounting of the bracket and shelf.

Figure 3 is a plan view of the supporting part of the bracket.

Figure 4 is a vertical sectional view through the bracket per se.

Figure 5 is an exploded side view, partly in section of the interfitting parts of the bracket separated.

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Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawings in detail A designates generally a portion of the body of a refrigerator of any standard construction, in this instance being shown of the round or circular type. Within the cooling chamber 10 of the body A is arranged the bracket constructed in accordance with the invention, and any number of these brackets may be employed for the proper support of a shelf, only a portion thereof being indicated at 11, and a single bracket is hereinafter more fully described.

The bracket constructed in accordance with the invention, comprises in its preferred form, a bearing member 12, which has projecting from one face of its circular disk like base, a flat faced stud 13, which is adapted for detachable engagement in a companion shaped seat or socket 14 formed in the vertical walling of the refrigerator A. Extending from the opposite face of the base in alignment with the stud 13, is an arbor or axle 15 for accommodation within a blind recess 16, provided centrally in a truncated conical roller 17, which at the end through which the recess is cleared, has an annular flange 18 adapted to match the base of the bearing member 12.

The shelf 11, which in this instance is round, is adapted to make contact with the roller 17, and has a beveled track rim 19 for such contact.

The stud 13 carries a rubber, or the like, washer 20, and the arbor or axle 15 carries a washer 21, adapted to space the base and flange from each other for the free rotation of the roller 17. This roller 17 is thimble fitted to the arbor or axle 15, and is readily and easily detached from the latter on the removal of the shelf from contact with the said roller. The shelf normally holds the bracket assembled and fixed in the refrigerator, as best seen in Figure 2 of the drawing. When the shelf 11 is lifted, the bracket can be disassembled and removed from placement in the refrigerator, so that the latter can be readily cleaned and also the bracket cleaned, as well as the shelf, for sanitary purposes. The shelf 11, when in the refrigerator, can be readily and easily rotated therein.

What is claimed is:

50 The combination of a movable shelf, a bracket comprising a disc shaped member having diametrically opposed bearing members formed thereon at the center thereof, one of said bearing members being square shaped in cross section and adapted to be detachably seated in a support,

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the other of said bearing members being circular in cross section, a roller journaled on said circular bracket for the engagement of the shelf therewith to permit free rotation of the roller, a flange on said roller of the same diameter as said disc shaped member, said roller being downwardly tapered on the contact edge thereof, a rubber washer on the square shaped bearing member and a steel washer on the circular bearing member to permit free rotation of said roller, and a track on said shelf conforming to the taper of the contacting surface of said roller to permit smooth sliding motion of said shelf.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,571,334	Howard	Feb. 2, 1926
1,581,171	Bushman	Apr. 20, 1926
1,946,532	Hatch	Feb. 13, 1934
2,015,389	Whitted	Sept. 24, 1935
2,157,611	Jones	May 9, 1939
2,258,267	Shimer	Oct. 7, 1941