Nov. 19, 1929. G. A. JOHNSTON 1,736,007

ROTARY BUILT-IN FIXTURE

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Fig. 1

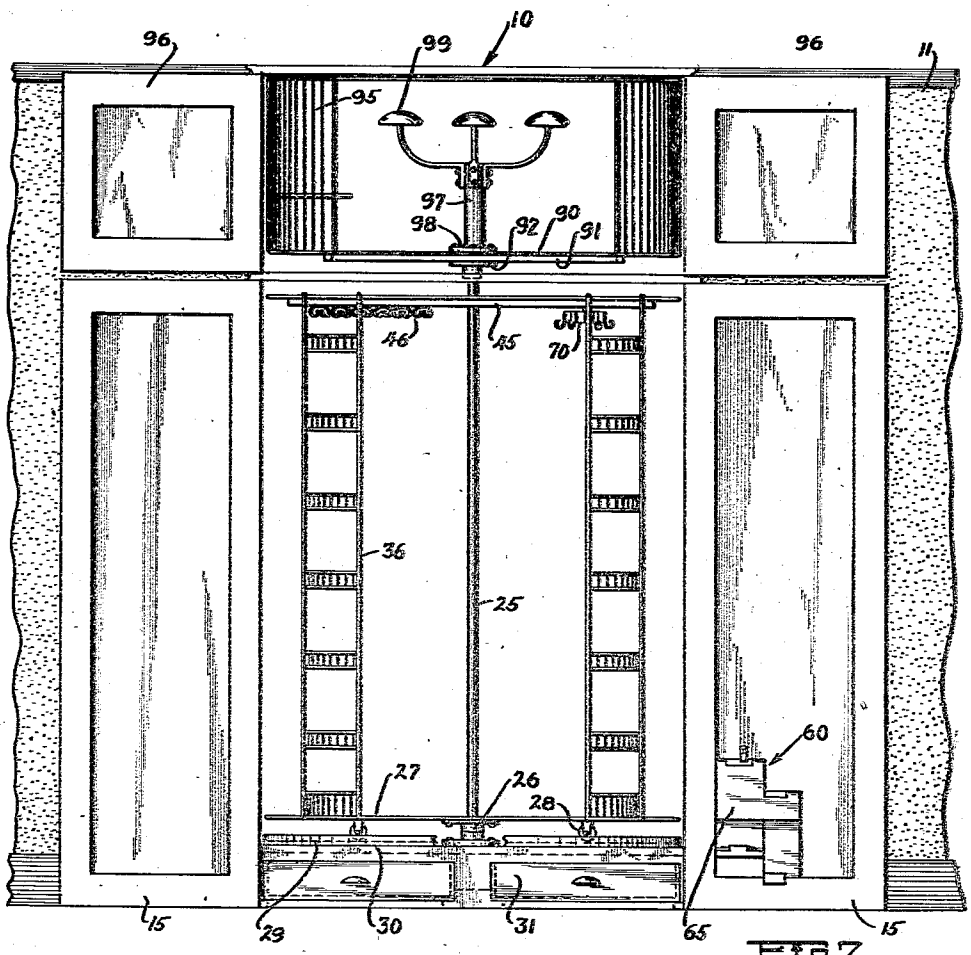

Fig. 6

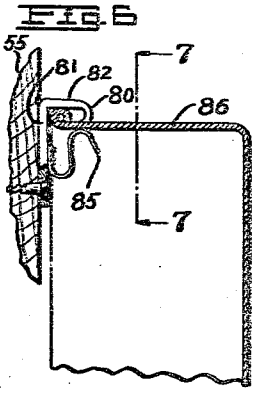

Fig. 5

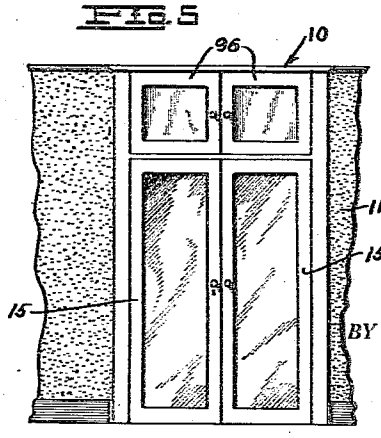

Fig. 7

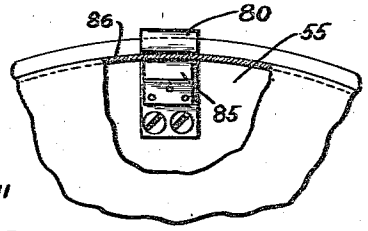

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Fig. 2

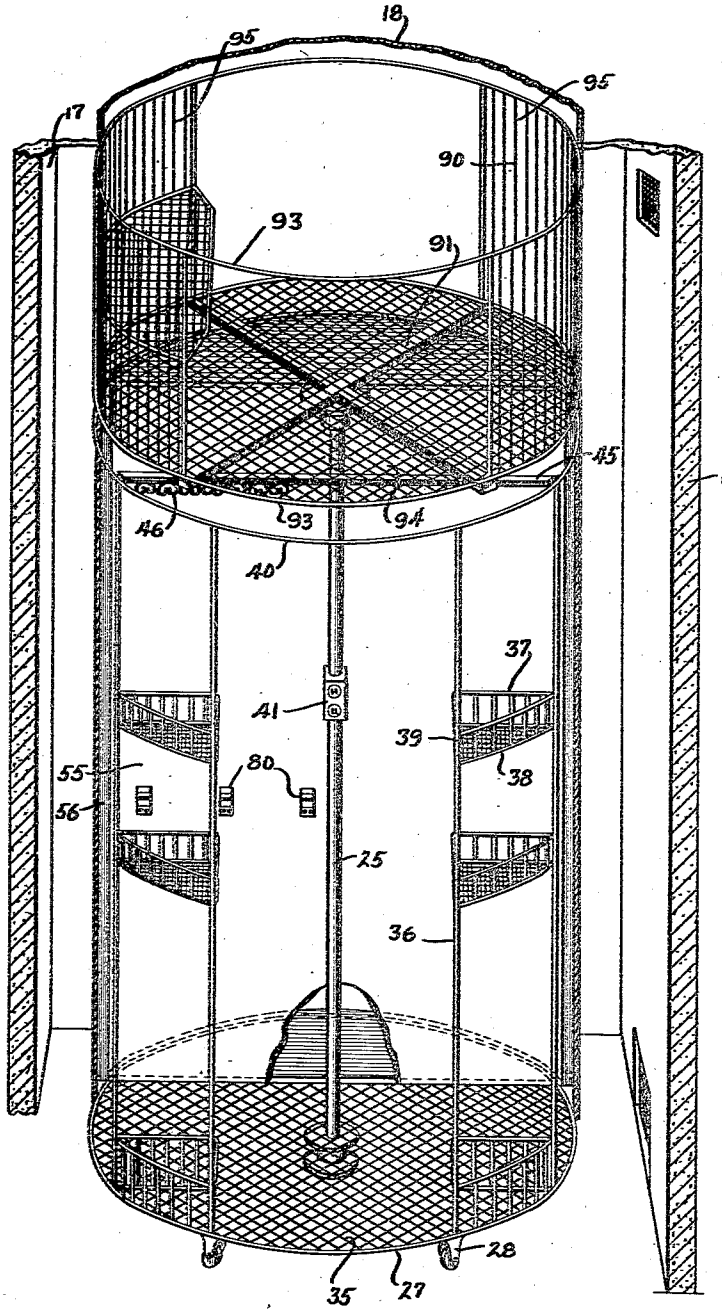

Fig. 8

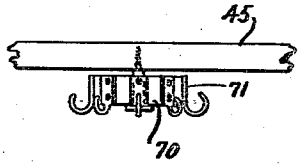

Fig. 9

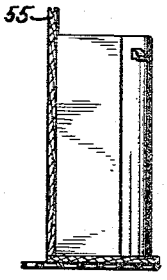

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Fig. 3

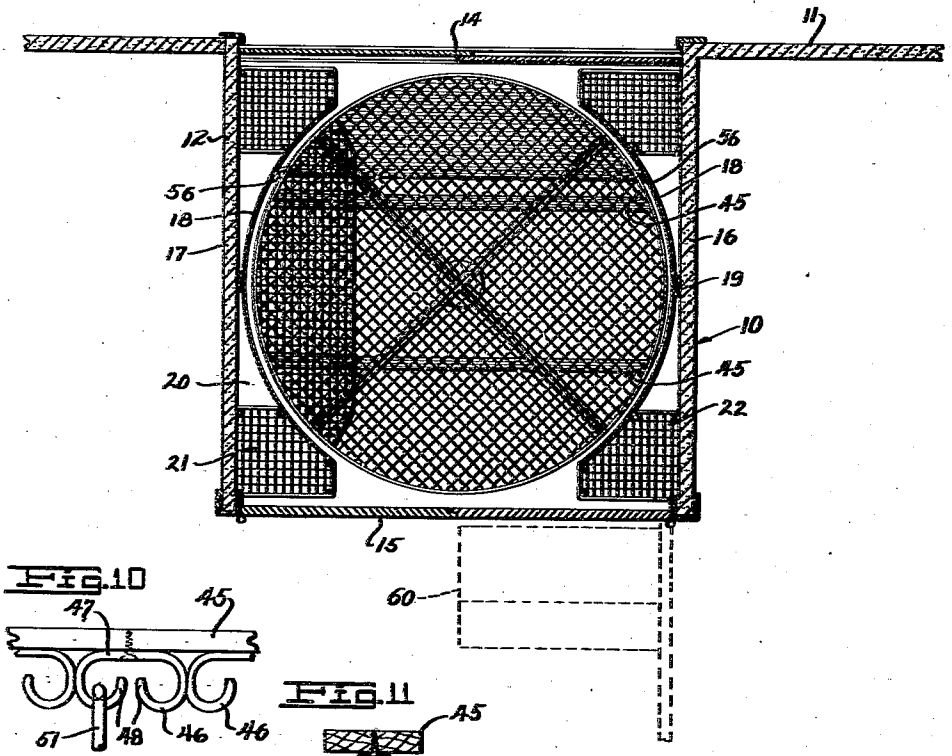


Fig. 10

Fig. 11

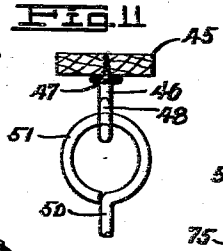


Fig. 4

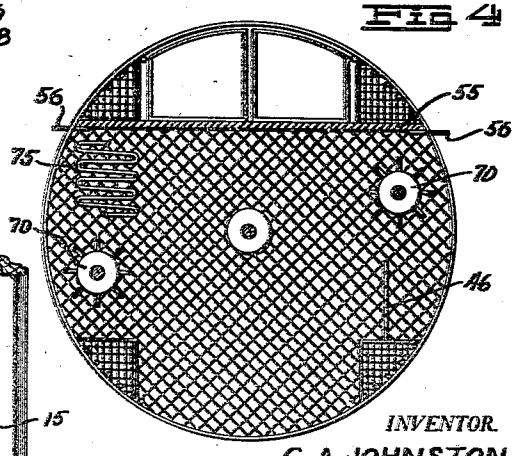
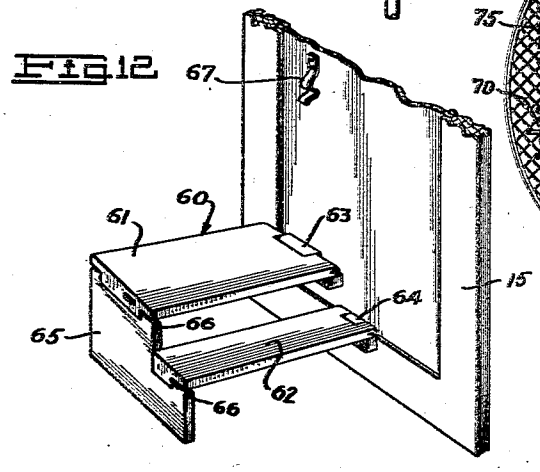


Fig. 12



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UNITED STATES PATENT OFFICE

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ROTARY BUILT-IN FIXTURE

Application filed May 27, 1925. Serial No. 33,085.

This invention relates to rotary built in fixtures.

The general object is to provide an improved rotary fixture which is adapted to be built into closets in dwellings.

One of the specific objects of the invention is to provide an improved closet wherein a rotary rack is arranged so that the full area of the closet will be useful.

Another object of the invention is to provide an improved closet which is particularly adapted to be arranged between a room and a corridor in a dwelling and wherein the closet has doors opening to both the corridor and the room and wherein a rack is arranged to rotate in the closet so that all sides of the rack will be accessible from either door.

Other objects of the invention will be apparent from the following description taken in connection with the accompanying drawings wherein Fig. 1 is an elevation showing a closet embodying the features of my invention; Fig. 2 is a perspective view partly in elevation showing details of the closet; Fig. 3 is a top plan view of the closet; Fig. 4 is a cross section showing the lower portion of the closet; Fig. 5 is a view similar to Fig. 1 on a smaller scale and showing the doors closed; Fig. 6 is a fragmentary detail partly in section showing one of the hangers; Fig. 7 is a view similar to Fig. 6 showing a hanger in front elevation; Fig. 8 is a fragmentary detail showing one of the rotatable supporting members; Fig. 9 is a fragmentary elevation showing one of the lines; Fig. 10 is a fragmentary detail showing the supporting hooks; Fig. 11 is a view of the supporting hooks taken at right angles to Fig. 10 and Fig. 12 is a perspective detail showing a portion of the door with the folding step secured thereto.

Referring to the drawing by reference characters I have shown a closet embodying the features of my invention at 10. This closet comprises a chamber preferably rectangular in shape which is indicated as built in conjunction with two walls 11 and 12. One side of the closet is provided with a pair of sliding doors 14 while the side is shown as provided with a pair of hinged doors 15. Although the doors are shown as arranged on opposite sides of the door 10, I wish it to be understood that these doors may be arranged in walls which are at right angles to each other when the position of the closet in a building makes this arrangement desirable.

The closet is indicated as provided with end walls 16 and 17 and adjacent to these end walls, I arrange arcuate walls 18 which are preferably constructed of metal bent to the form shown and are secured in place by fastening members shown at 19.

The arcuate walls 18 provide corner spaces 20 in which I secure bins 21. These bins 21 may comprise wire members supported on vertically extending rods 22 and these wire members may be removable if desired.

Arranged within the closet 10, I show a vertically extending shaft 25 which is mounted to rotate in suitable bearings 26. The shaft 25 has a bottom member 27 secured thereto. This bottom member 27 is indicated as an annular ring having castors 28 secured thereto. The castors 28 are adapted to run on a track 29 which is disposed on the floor 30 of the closet. Below the floor 30 I arrange drawers 31 which are adapted to move in and out.

A circular sheet of strong metal mesh 35 is shown as secured to the ring 27 to serve as a floor for the rotatable closet. Upon the ring 27 I secure vertical uprights 36 which form a rack. These uprights 36 may be spaced in any desired position and as shown they serve as supports for compartments 37 which have metal rails 38 thereon and a mesh bottom 39. An upper ring 40 is secured to the upper ends of the vertical uprights 36 and the entire supporting rack is adapted to rotate with the shaft 25. A shaft 25 is preferably hollow and is provided with electric wires having an outlet 41 thereon.

Across the upper portion of the rack I may provide one or more transverse members 45 which have supporting hooks 46 thereon. Each of these supporting hooks is preferably made from a strip of flexible metal having a substantially straight back portion 47 and having reversely hooked ends 48. For coacting with the hooks 46, I show supporting

members 50 which may have garment hangers thereon. These supporting members 50 each include a circular upper portion 51 which is closed and which is constructed of material larger in size than the opening to the hooks 46. As a result of this construction, the loops 51 can be passed between the hooks 46 only by springing the latter so that the liability of accidental removal of one garment hanger, while removing an adjacent one, is reduced to a minimum.

At one side of the shaft 25, I arrange a transverse partition 55. This partition is preferably made from a thin piece of metal or wood and is imperforate to completely close access through the rack. Adjacent each edge of the partition 55 I arrange resilient flaps which are preferably made from thin rubber strips and which are adapted to engage the arcuate walls 18 when the rack is in the position shown in Fig. 3 so that the passage of air through the closet will be prevented.

A closet embodying the features of my invention may be used for insertion between the porch of a dwelling and a kitchen or it may be used between the corridor and one of the rooms so that it is quite desirable that communication through the closet be prevented and this result is secured by means of the partition 55.

Secured to one of the doors 15, I show a folding step 60. This step comprises two step portions 61 and 62 which are hinged at 63 and 64 respectively upon the door 15. The outer ends of the steps 61 and 62 are secured in stepped portions of a supporting member 65 by pintles 66 as shown.

The step is normally disposed against the door with the clip 67 holding it in collapsed position. When desired for use it is pulled away from the clip and is moved to the position shown in Fig. 12 so that the operator may mount the steps to put articles in the closet.

In addition to the clips 46 one of the transverse members 45 is shown as provided with a rotatable block 70 which has a plurality of supporting hooks arranged near the periphery thereof. The other member 45 is shown as provided with another one of the rotatable block members 70 and with a reversely bent strip of metal 75 in the loops of which skirts or trousers may be supported.

The partition 55 is shown as provided with a plurality of hangers 80 which as shown in detail in Figs. 6 and 7 comprise a body portion 81 secured to the partition 55 and an outstanding portion 82 having a hook therethrough. Upon the body portion 81 I secure an S-shaped strip of resilient metal with the end 85 of the S directed away from the hook on the point 82 so that when the beaded edge or thickened rim of a vessel 86 is forced against the meeting point of the hook 82 of the clip 85 this edge will spread the partition allowing the vessel to assume the position shown in Fig. 6. When the operator wishes to remove the vessel the lower portion thereof will be raised and the thickened rim portion will be pulled against the clip 85 causing it to spread so that the vessel may be removed.

Mounted upon the upper end of the shaft 25, I show an auxiliary rack 90. This auxiliary rack includes a pair of cross members 91 which are removably secured upon a base 92. The auxiliary rack 90 includes upper and lower parallel members 93, bottom 94 and side portions 95. The side portions 95 extend only a part of the way around the auxiliary rack so that access to the rack may be had. The upper portion of the closet may be closed by a suitable door 96 as shown in Fig. 1.

Within the auxiliary rack I show a post 97 which is removably secured by fastening members 98 at the bottom of the auxiliary rack. This post 97 is indicated as provided with a plurality of hat supporting members 99 as shown.

From the foregoing description it will be apparent that I have provided an improved rotary closet which can be arranged in a dwelling between two rooms to allow service deliveries to be made, but wherein means will be provided to prevent access to the rooms and wherein the entire area of the closet is available for use.

Having thus described my invention, I claim:

1. A built-in fixture comprising a closet having a continuous unpartitioned inner space having upper and lower independent openings thereinto, an independent closure for each of said openings, a rotatable vertical shaft in said closet, a rotatable rack engaging said shaft, said rack being of the same height as the lower opening, a second rack supported by said vertical shaft and rotatable thereon above said first rack, said second rack being of a height corresponding approximately to the height of said upper opening, said second rack including an article supporting bottom member and a plurality of storage compartments.

2. A built-in fixture comprising a closet having upper and lower independent openings thereto, independent closures for each of said openings, a rotatable vertical shaft in said closet, a rotatable rack engaging said shaft, said rack being of a height corresponding approximately to the height of the lower opening, said rack having a plurality of rollers thereon, said rack including a top member and a bottom member, a transverse partition in said rack extending from said top member to said bottom member at one side of said vertical shaft, said rack also including a plurality of vertical rods connecting said top member and said bottom member, a plurality of compartments supported

by said vertical rods, a block supported by said top member and rotatable relative thereto and having a plurality of supporting elements supported by said top member and fixed relative thereto, a second rack supported by said vertical shaft and rotatable thereon, said second rack being of a height corresponding approximately to the height of said upper opening, said second rack including an article supporting bottom member and a plurality of storage compartments and a bracket adjacent the center of said second rack, said bracket including a plurality of extended arms having an article supporting element thereon.

In testimony whereof, I hereunto affix my signature.

GEORGINA A. JOHNSTON.