March 14, 1961 G. B. LEEPER, SR 2,974,449

REVOLVING PATIO AWNINGS

Filed March 26, 1959

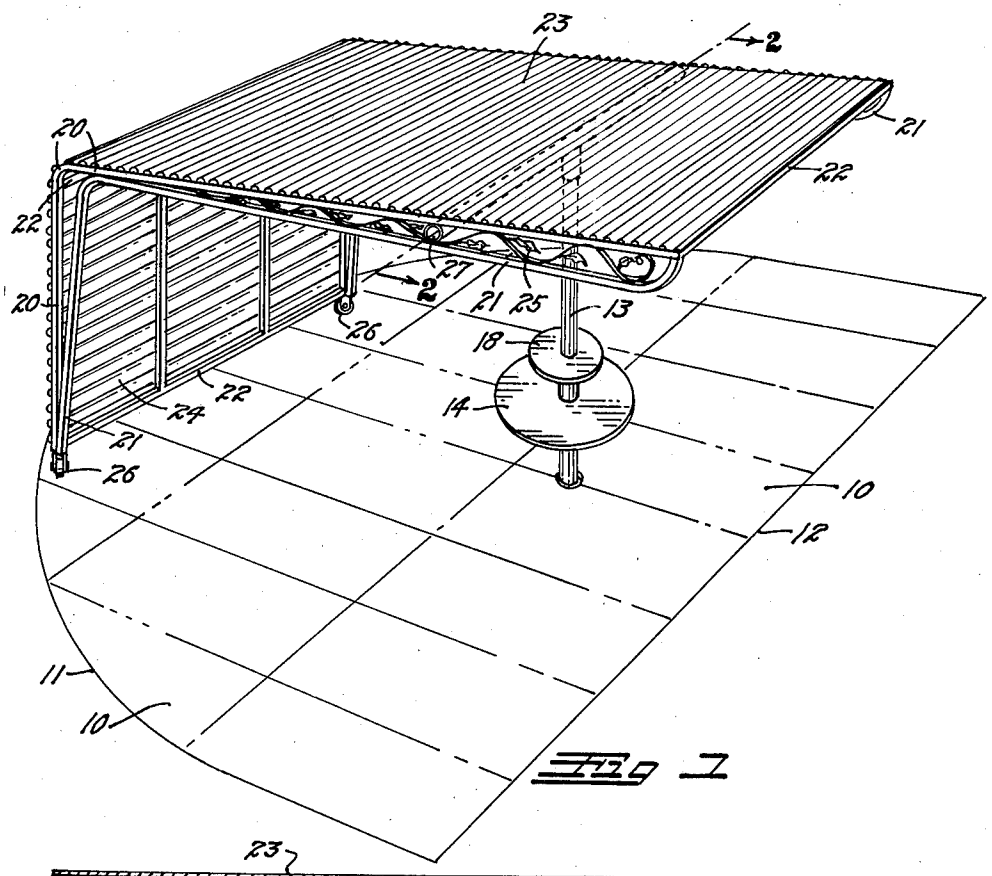


Fig 1

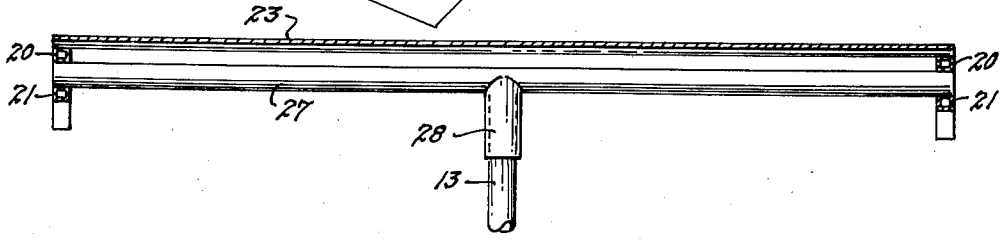


Fig 2

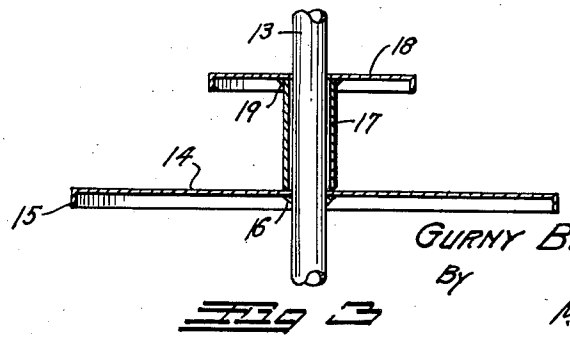


Fig 3

INVENTOR.

GURNY B. LEEPER, SR.

BY

ATTORNEY

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REVOLVING PATIO AWNINGS

Gurny B. Leeper, Sr., 2722 W. 2nd Ave., Denver, Colo.

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1 Claim. (Cl. 50—50)

This invention relates to a shelter for outdoor patio areas and has for its principal object the provision of an awning consisting of a wind break portion and a roof portion arranged to enable the entire awning to be rotated about a fixed axis point so that it can be adjusted to protect the patio area from the sun's rays and from wind coming from any compass direction.

Another object is to provide a rotatable patio awning with a fixed table at the axis of revolution so that the awning can be revolved to any desired position without disturbing the table or the table settings.

A further object is to combine upon a single supporting post a rotatable patio awning, a rotatable "Lazy Susan" shelf, and a patio table.

Other objects and advantages reside in the detail construction of the invention, which is designed for simplicity, economy, and efficiency. These will become more apparent from the following description.

In the following detailed description of the invention, reference is had to the accompanying drawing which forms a part hereof. Like numerals refer to like parts in all views of the drawing and throughout the description.

In the drawing:

Fig. 1 is a perspective view of an outdoor patio area provided with the improved rotatable patio awning;

Fig. 2 is an enlarged fragmentary cross section through the roof portion of the awning, taken on the line 2—2, Fig. 1; and

Fig. 3 is a detail section illustrating a table and a "Lazy Susan" shelf mounted upon a pivot post for the improved awning.

In Fig. 1, an outdoor patio area is indicated at 10. The area 10 is preferably provided with a floor of any desired type and design. As illustrated, the floor is of cement and sand marked off in panels and provided with an arcuate side 11 and a straight side 12. A relatively heavy, pipe pivot post 13 is vertically embedded in the floor of the area 10 at the axis or center point of the arcuate side 11. A round sheet metal table top 14, having a downwardly turned edge flange 15, is positioned concentrically about the pivot post 13 and welded thereto, as indicated at 16, at the proper table height. A spacer pipe 17 rotatably surrounds the pivot post 13 and rests upon the table top 14. A circular, pressed sheet metal "Lazy Susan" shelf 18 is concentrically fitted about the post 13 and is welded or otherwise secured to the top of the spacer pipe 17, as shown at 19, so that it will be maintained at the proper distance above the table 14 and freely rotatable about the post 13. The pivot post 13 also serves as the pivot point for the improved rotatable patio awning.

The patio awning comprises two inverted L-shaped side frames held in vertical parallel, spaced-apart arrangement by means of cross frame members 22 and a cross pipe or tube 27. Sheet material such as aluminium or fiber glass, preferably but not necessarily of the corrugated type, is secured to and extends between the two side frames to form a roof portion 23 and a wind break portion 24. The side frames may have any suitable construction. As illustrated, they each comprise an inverted-L-shaped frame member 20, preferably of square aluminum tubing. A brace frame member 21 is welded within the included angle of each frame member 20 and suitable ornamental iron work 25 can be positioned between the frame members 20 and the brace frame members 21 to improve the appearance of the awning if desired.

The wind break portion of the awning is supported upon suitable, free-rolling rollers or wheels 26. The outer edge of the roof portion of the awning is supported by the wind break portion and the inner edge is supported by the cross pipe or tube 27 which is welded at its extremities to the two side frame members and extends transverally therebetween. The cross tube 27 is spaced back from the inner edge of the awning a distance substantially equal to one half the width thereof and is provided with a downwardly extending pivot pipe stub 28, welded to and extending downwardly from the mid-point of the cross tube 27. The pipe stub 28 is for pivotally mounting the cross tube upon the upper extremity of the pivot post 13 to provide a pivot for rotation of the entire awning.

It can be seen that the wind break portion of the awning can be pushed about the arcuate side 11 of the patio area 10 to any desired position so as to shield the area from the wind or from rays of the sun coming from any angle throughout an arc of 180° on the patio area illustrated. It is to be understood that the patio area could cover any desired arcuate area up to and including 360°. In which case the awning could be carried about a complete revolution.

The awning could, of course, be made in any practical size. The popular dimensions appear to be: pivot post 8'0" high; windbreak portion 6'0" high, 10'0" wide with wheels 8" in diameter; roof portion 10'0" x 15'0"; and a table top size to seat eight people.

While a specific form of the improvement has been described and illustrated herein, it is to be understood that the same may be varied within the scope of the appended claim, without departing from the spirit of the invention.

Having thus described the invention what is claimed and desired secured by Letters Patent is:

A patio awning comprising: a fixed vertical pivot post having one end thereof embedded in the ground, a horizontal cross-member pivotally supported at its mid-point upon said post and free to rotate in a horizontal plane upon and about the axis of said post, a generally horizontal roof supporting frame mounted on each end of said cross-member at right angles thereto and extending on both sides of said cross-member, a generally vertical supporting member extending downwardly from each of two adjacent ends of said roof supporting frames, a generally rectangular roof portion supported by and extending between said roof supporting frames, a wind-break portion extending between said vertical supporting members and connected to said roof portion, and wheels carried by the lower ends of said vertical supporting members so that they may be moved circumferentially about said post throughout a complete circle.

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