Oct. 21, 1952 E. A. LOWE 2,614,299

AWNING OR CANOPY

Filed May 7, 1948 2 SHEETS—SHEET 1

Fig. 1.

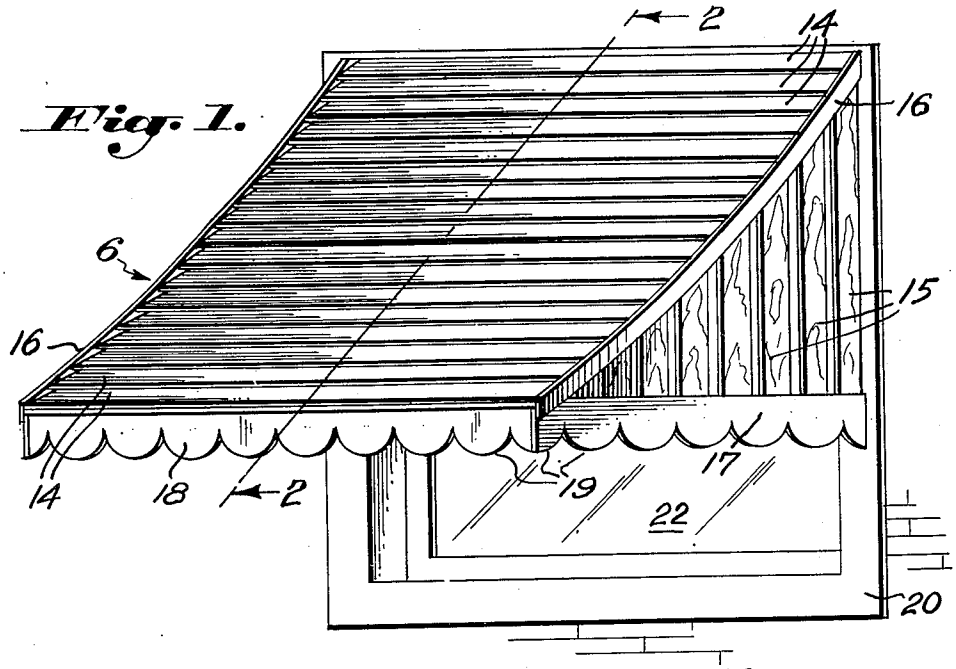
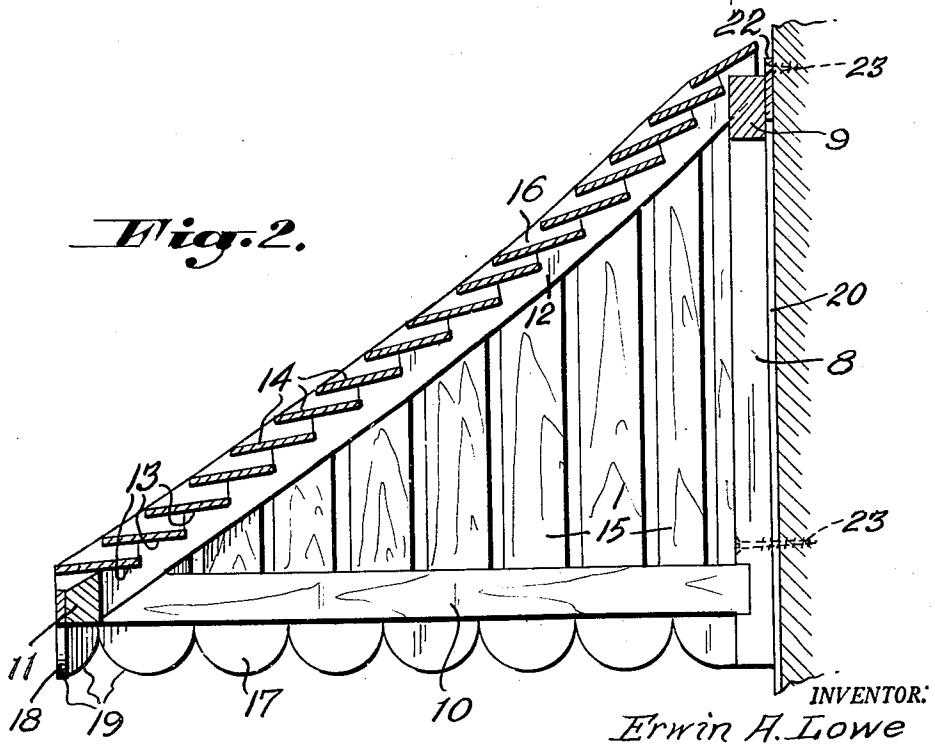


Fig. 2.



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Fig. 3.

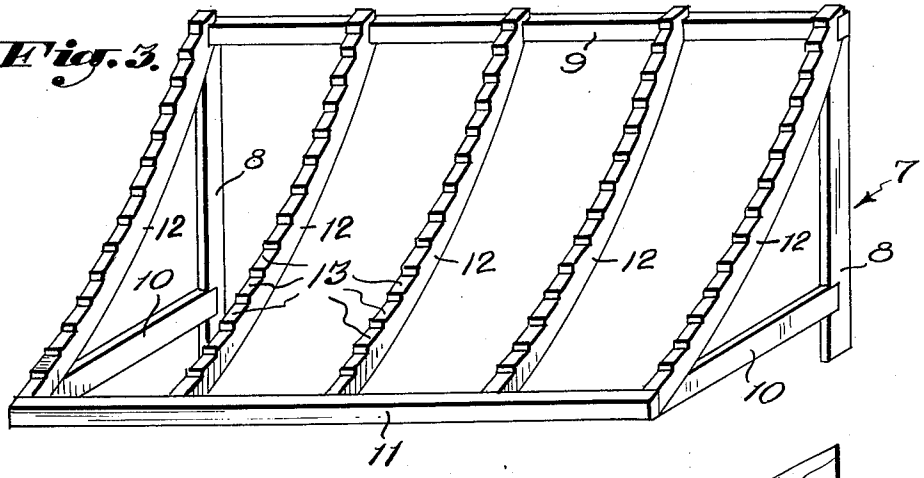
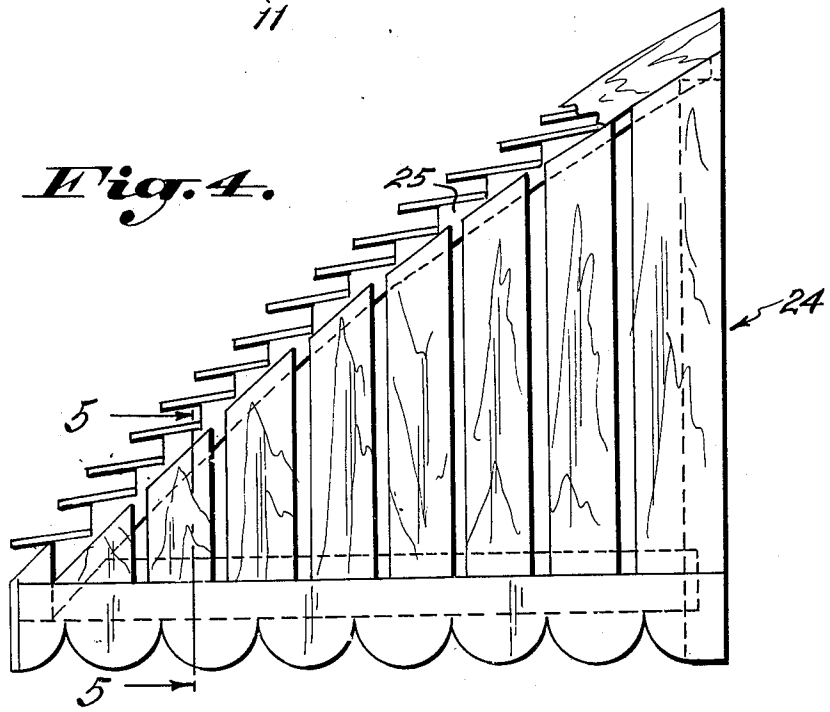


Fig. 4.



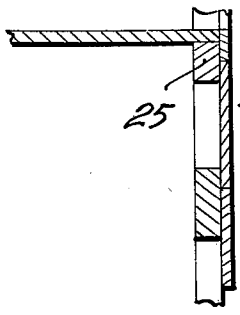


Fig. 5.

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UNITED STATES PATENT OFFICE

2,614,299

AWNING OR CANOPY

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Application May 7, 1948, Serial No. 25,766

1 Claim. (Cl. 20—57.5)

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This invention relates to an improved construction of rigid awning or canopy for use with windows or doors and has particular reference to such a structure which will protect the window or door from the elements and from direct rays of the sun and which will permit a free circulation of air therethrough and a sufficient passage of light so as not to materially darken an enclosure adjacent a door or window over which the awning or canopy is disposed.

Another and important object of the invention is to provide a rigid awning or canopy of extremely simple construction capable of being economically manufactured and sold and which will be relatively light in weight yet extremely durable so that it can be readily mounted on the frame of a window or door and be detachably supported so that it can be removed for use only in certain seasons of the year.

A further object of the invention is to provide an awning or canopy formed of a plurality of individually removable sections capable of being removed and replaced if necessary.

Various other objects and advantages of the invention will hereinafter become more fully apparent from the following description of the drawings, illustrating presently preferred embodiments of the invention, and wherein:

Figure 1 is a perspective view showing the invention in the embodiment of an awning applied to a window;

Figure 2 is a sectional view thereof taken substantially along a plane as indicated by the line 2—2 of Figure 1;

Figure 3 is a perspective view of the awning frame;

Figure 4 is a fragmentary side elevational view showing the invention embodied in a canopy for use over a door or the like, and

Figure 5 is a sectional view taken substantially along a plane as indicated by the line 5—5 of Figure 4.

Referring more specifically to the drawings, and first with reference to the awning designated generally 6 and illustrated in Figures 1 to 3, said awning includes a frame as seen in Figure 3, designated generally 7 including a pair of corresponding upright rear side members 8 which are connected at their upper ends to an upper crossrail 9. A bottom side member 10 is secured to and preferably mortised into each of the frame members 8 adjacent its lower end and said side members 10 extend outwardly therefrom substantially at right angles to the members 8 and are connected at their outer ends to the ends of an

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outer and lower crossrail 11. The upper and lower crossrails 9 and 11 are connected at their ends and at a plurality of intermediate points by rafters 12 which extend therebetween and the ends of which are preferably mortised into said rails 9 and 11. As best seen in Figure 2, the rafters 12 are longitudinally bowed downwardly or inwardly of the frame 7 and the upper, concave edges thereof are correspondingly notched to provide the inclined stepped upper surfaces 13 which are inclined downwardly and outwardly with respect to the awning frame 7 and the inclination of which increases toward the upper, inner end of said frame. A slat 14 is secured as seen in Figure 2, to each of the aligned steps 13 and said slat projects forwardly beyond the steps and are accordingly disposed in spaced overlapping relationship to one another, as clearly illustrated in Figure 2 and are inclined downwardly and outwardly to form inclined air spaces therebetween which will permit a substantially unobstructed passage of air and light through the awning 6 but which, due to the pitch of the slats 14 will prevent the direct rays of the sun from passing through the awning.

The awning 6 is also provided with side slats 15 which are secured at their upper ends to the end rafters 12 and at their lower ends to the side members 10 and the adjacent edges of which are spaced apart to provide additional spaces for the passage of air and light through the awning. The awning frame 7 is also provided with strips 16 which are secured to the outer sides of the end rafters 12 above the slats 15 and which are curved to conform to the curvature of said rafters and overlie the upper edges thereof for overlying the ends of the slats 14, as best seen in Figures 1 and 2. The frame 7 is also provided with a trim comprising corresponding side strips 17 which are secured to the outer sides of the members 10 below the slats 15 and an outer strip 18 which is secured to the outer side of the bottom rail 11. The trim strips 17 and 18 are provided with depending scalloped bottom edges 19.

The awning 6 may be detachably fastened to the frame 20 of a window 21 at its upper edge by means of conventional storm sash hangers 22 and said awning may be braced adjacent its lower end by means of wood screws or similar fastenings 23 which extend through the upright frame members 8 and into the window frame 20. Likewise, if desired, any other suitable securing means may be utilized for permanently or demountably supporting the awning 6 on the window frame 20.

Figures 4 and 5 illustrate a canopy, designated generally **24** especially adapted for use over a door and which differs in construction from the awning **6** only in that the rafters **25** thereof instead of being bowed inwardly or downwardly are bowed outwardly and upwardly, as clearly illustrated in Figure 4. The canopy **24** may be mounted on a door frame, not shown, in the same manner that the awning **6** is mounted on the window frame **20** or may be rigidly or demountably supported in any other desired manner.

The awning **6** and canopy **24** are preferably formed of wood with the slats **14** of the awning **6** and the complementary slats of the canopy **24** preferably being formed of redwood and with the side slats and trim strips of the awning and canopy preferably being formed of plywood to thereby provide a relatively lightweight yet extremely durable and rigid construction, or the parts may be formed of aluminum.

Various modifications and changes are contemplated and may obviously be resorted to, without departing from the spirit or scope of the invention as hereinafter defined by the appended claim.

I claim as my invention:

A rigid ventilated covering for doors or windows comprising a frame structure adapted to be mounted on the exterior of a building adjacent to and over a door or window and constructed and arranged to admit a relatively large amount of air and light therethrough, said frame

structure including outwardly and downwardly extending rafters having outwardly and downwardly inclined steps in the upper surfaces thereof, and slats secured to said steps and projecting outwardly therefrom in spaced overlapping relationship to one another to provide spaces therebetween for the passage of air and light through the device, said slats each being of approximately twice the width of the steps to overlie approximately a half of the slat disposed therebeneath, each of said rafters being uniformly bowed throughout its length, each of said steps being of the same length and being spaced the same distance from the inner arcuate edge of its rafter, the inclination of the steps and of the slats secured thereto varying whereby the amount of light and air admitted through the door or window covering will be varied in different portions of the covering.

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