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J. C. ROGERS ET AL

2,569,388

VENTED AWNING

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FIG. 1

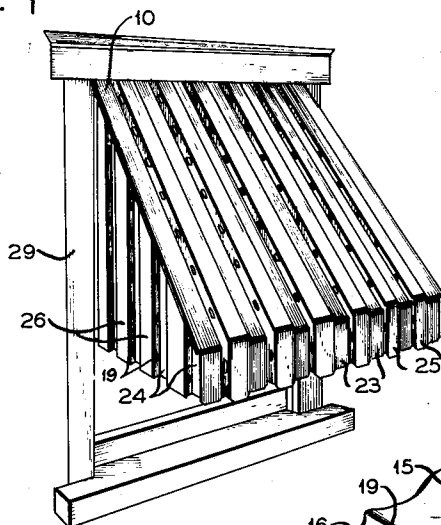


FIG. 2

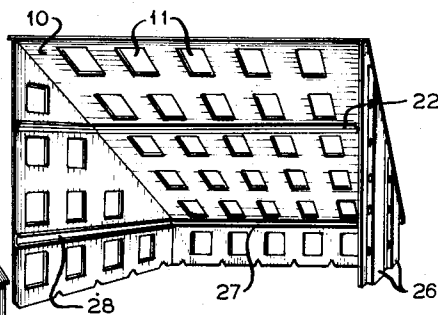


FIG. 3

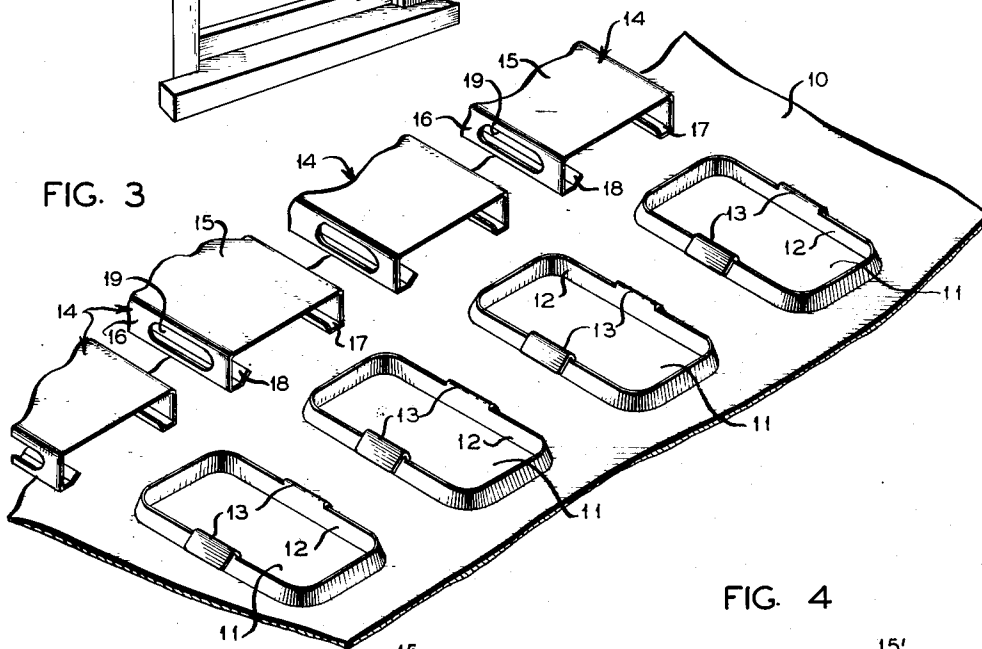
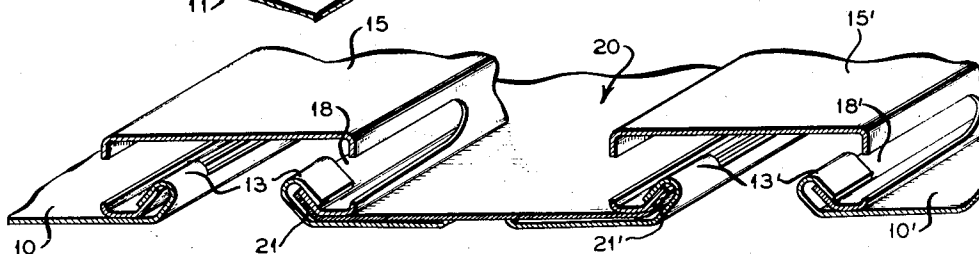


FIG. 4



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VENTED AWNING

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6 Claims. (Cl. 20—57.5)

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This invention relates to awnings and particularly to those of the relatively rigid type which are not intended to be raised or lowered with respect to an associated window frame. Some requirements which awnings of this type must meet are that they are able to shed water effectively and at the same time permit the passage of air therethrough in order to provide desirable ventilation.

Accordingly it is an object of the present invention to provide an awning structure of the relatively rigid type which will effectively shed water and permit the passage of air therethrough and which is easy and inexpensive to manufacture.

A further object of the invention is the provision of an awning of the relatively rigid type in which the removable slats may be easily assembled and removed relative to the cover sheet.

A further object of the invention is the provision of an awning of the relatively rigid type in which circulation of the air therethrough is promoted by the structure of the awning.

Further objects and advantages of the invention will be apparent from the following specification taken in conjunction with the accompanying drawings wherein:

Fig. 1 is a perspective view of the awning mounted in the position of use;

Fig. 2, a view taken from inside the awning disclosed in Fig. 1;

Fig. 3, a fragmentary perspective illustrating the cover sheet and slats unassembled; and,

Fig. 4, a perspective partly in section of the assembled cover sheet and slats and showing a method of joining adjacent structures.

With continued reference to the drawings, the awning comprises a base plate or cover sheet 10 having a series of apertures 11 therein defined by raised converging edge portions 12 and having attached to the vertical opposite sides of the edge portions relatively narrow flanged members 13. The apertures 11 are arranged in spaced alignment in the cover sheet, as is more clearly shown in Fig. 2, for purposes about to be described.

A plurality of channel members or slats 14 are provided each to cover an aligned group of the cover sheet apertures, each having web portions 15, side portions 16, feet members 17 and flange or lip portions 18. Spaced openings or apertures 19 are provided in the side members 16 of the slats to provide for the circulation of air therethrough. It is contemplated that rain, sunlight or other matter falling on the awning will be

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prevented from passing therethrough by the cover sheet and slats of the awning but that air may be allowed free circulation through the communicating apertures 11 and 19.

Referring particularly to Fig. 3, the slat members 14 may be securely positioned over the apertures 11, by the engagement of the flange members of 18 of the slats, and 13 of the apertures.

It is contemplated that the cover sheet may be stamped in various sizes and that an awning of the desired size may be constructed by joining together two or more cover sheets by means about to be described, if one does not meet the requirements.

Means joining cover sheets in side by side relationship is disclosed in Fig. 4 wherein the cover sheets 10 and 10' having slats 15 and 15' thereon are held together. For this purpose a substantially flat elongated member 20 is provided having upturned flanged portions 21 and 21' at its lateral extremities which are designed to cooperate with the flange portions 13 and 13' and 18, 18' of the cover plate apertures and slats. Using the means shown in Fig. 4 any number of cover sheets may be joined side by side in order to provide an awning of the desired lateral dimensions.

Means is also provided for extending the awning longitudinally as disclosed in Fig. 2, the channel member 22 being attached by suitable means such as welding on fasteners to the adjoining ends of the coverplate members. Member 22 may also be employed with a single coverplate to provide more rigidity for the same. It is contemplated that the awning will be provided with the usual fringe portion 23 and end portions 24, and that said fringe and end portions may be stamped or otherwise formed integrally with the coverplate 10. The fringe portion 25 of the slats 14 may likewise be made integral therewith, and slats 26 of the appropriate length and configuration may be used with the end portions 24 of the cover sheet. In order to provide additional rigidity to the structure, channel members 27 and 28 may be provided as shown in Fig. 2 for use therewith.

The invention also contemplates the use of separate fringe and end portions where desired, the main cover sheet being substantially rectangular and the end portions substantially triangular, in which case the channel member 27 may be used to connect the fringe portion 23 to the cover sheet 10 and a similar member may likewise be used to connect the cover sheet 10 and end portions 24.

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The awning is preferably made of sheet metal although it is not restricted thereto, for any suitable sheet material may be employed. In using the device, a cover sheet of a size appropriate to the length and width of the frame 29 of the window or door is employed, or as many cover sheets of appropriate dimensions may be employed as is necessary. After the appropriate cover sheet and fringe and end portions have been positioned relative to each other, the slats may be attached thereto by sliding the flange portions of the slats under the flanged portions of the cover sheet apertures. The supporting channel members 22, 27, 28 may also be attached at this time after which the structure may be fixed to the frame of the window or door by suitable means well known in the art.

When in use, heated air beneath the awning will tend to rise and pass out through apertures 11 in the cover sheet and to the space between the slats and the cover sheets. As the air in this space will normally be warmer than that beneath the cover sheet because of being substantially surrounded by relatively warm metal it will likewise tend to rise thus passing upwardly in the space beneath the slats and out the apertures provided therein. It is therefore apparent that the awning will promote the circulation of air by reason of its construction.

It is apparent that the awning may be readily disassembled for cleaning, repairing or refinishing, by slidably removing the slats from the cover sheet.

It will be obvious to those skilled in the art that various changes may be made in the invention without departing from the spirit and scope thereof and therefore the invention is not limited by that which is shown in the drawings and described in the specification but only as indicated in the appended claims.

What is claimed is:

1. An awning comprising a relatively flat cover sheet having rows of aligned ventilating openings with the openings in each row aligned with the openings in the other rows, said cover sheet having raised angularly disposed marginal portions about said ventilating openings with said marginal portions extended at opposite sides and providing fastening tabs, a substantially channel-shaped cover strip for each row of ventilating openings, said cover strips each comprising an imperforate main body or web portion, side portions located transversely of said web portion and having spaced openings therein for disposition in staggered relation to the openings in the cover sheet, and inwardly disposed mounting flanges for engagement with said cover sheet the free edges of said flanges being provided with inwardly disposed angular portions having substantially the same angularity as the angularly disposed portions of the cover sheet for cooperative engagement therewith so that said tabs may be bent downwardly into contact with the angular portions of the cover strips for locking the cover strips to the cover sheet over the openings therein, the side portions with inwardly disposed mounting flanges and inwardly disposed angular portions of said cover strips providing a trough within the cover strip at each side of the same, the openings in the cover sheet and in the cover strips providing for circulation of air through the awning but due to the openings in the cover strip and cover sheet being staggered rain entering the openings in the cover strip will be caught in said troughs.

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2. An awning comprising a relatively flat cover sheet having rows of aligned ventilating openings, said cover sheet having raised angularly disposed marginal portions about said ventilating openings with said marginal portions extended at opposite sides and providing fastening tabs, a substantially channel-shaped cover strip for each row of ventilating openings, said cover strips each comprising an imperforate main body or web portion, side portions located transversely of said web portion and having spaced openings therein, and inwardly disposed mounting flanges for engagement with said cover sheet the free edges of said flanges being provided with inwardly disposed angular portions having substantially the same angularity as the angularly disposed portions of the cover sheet for cooperative engagement therewith so that said tabs may be bent downwardly into contact with the angular portions of the cover strips for locking the cover strips to the cover sheet over the openings therein, the side portions with inwardly disposed mounting flanges and inwardly disposed angular portions of said cover strips providing a trough within the cover strip at each side of the same, the openings in the cover sheet and in the cover strips providing for circulation of air through the awning.

3. An awning comprising a relatively flat cover sheet having rows of aligned ventilating openings with raised angularly disposed marginal portions about the same, fastening tabs formed on said marginal portions along opposite sides of each of said rows, a substantially channel-shaped cover strip for each row of ventilating openings, each cover strip comprising an imperforate web portion with side portions located transversely of said web portion and having spaced openings therein and also inwardly disposed mounting flanges for engagement with said fastening tabs for locking the cover strips to the cover sheet over the openings therein, the side portions with inwardly disposed mounting flanges providing a drainage trough within the cover strip at each side of the same, the openings in the cover sheet and in the cover strips providing for circulation of air through the awning.

4. An awning comprising a relatively flat cover sheet having rows of aligned ventilating openings with raised angularly disposed marginal portions having fastening tabs formed thereon along opposite sides of each of said rows, a substantially channel-shaped cover strip for each row of ventilating openings, each cover strip having an imperforate top portion and side portions with spaced openings therein and spaced mounting flanges extending inwardly from the bottom of said side portions for engagement with said fastening tabs, the openings in the cover sheet and in the cover strips providing for circulation of air through the awning.

5. Awning structure comprising a cover sheet with rows of ventilating openings therein, raised marginal edges about said ventilating openings, a cover strip for each row of ventilating openings comprising a portion overlying said openings and side portions with spaced perforations therein, mounting flanges extending inwardly from said side portions and having raised marginal edges, fastening tabs formed on certain of said marginal edges and adapted to be bent over a contiguous marginal edge for fastening the parts in assembled relation.

6. Awning structure comprising flat cover sheet structure having a series of relatively short

ventilating openings defining rows with each row composed of a plurality of said openings and there being adjacent each opening a portion with which water on the sheet will come in contact and be subject to deflection thereby before it can pass therethrough, a continuous cover strip for each row of ventilating openings including an imperforate top portion and continuous side portions providing spaced mounting flanges at each side of the strip, said continuous side portions having longitudinally spaced ventilating openings therein, and means whereby said flat cover sheet and said cover strips may be secured in assembled operative relation.

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