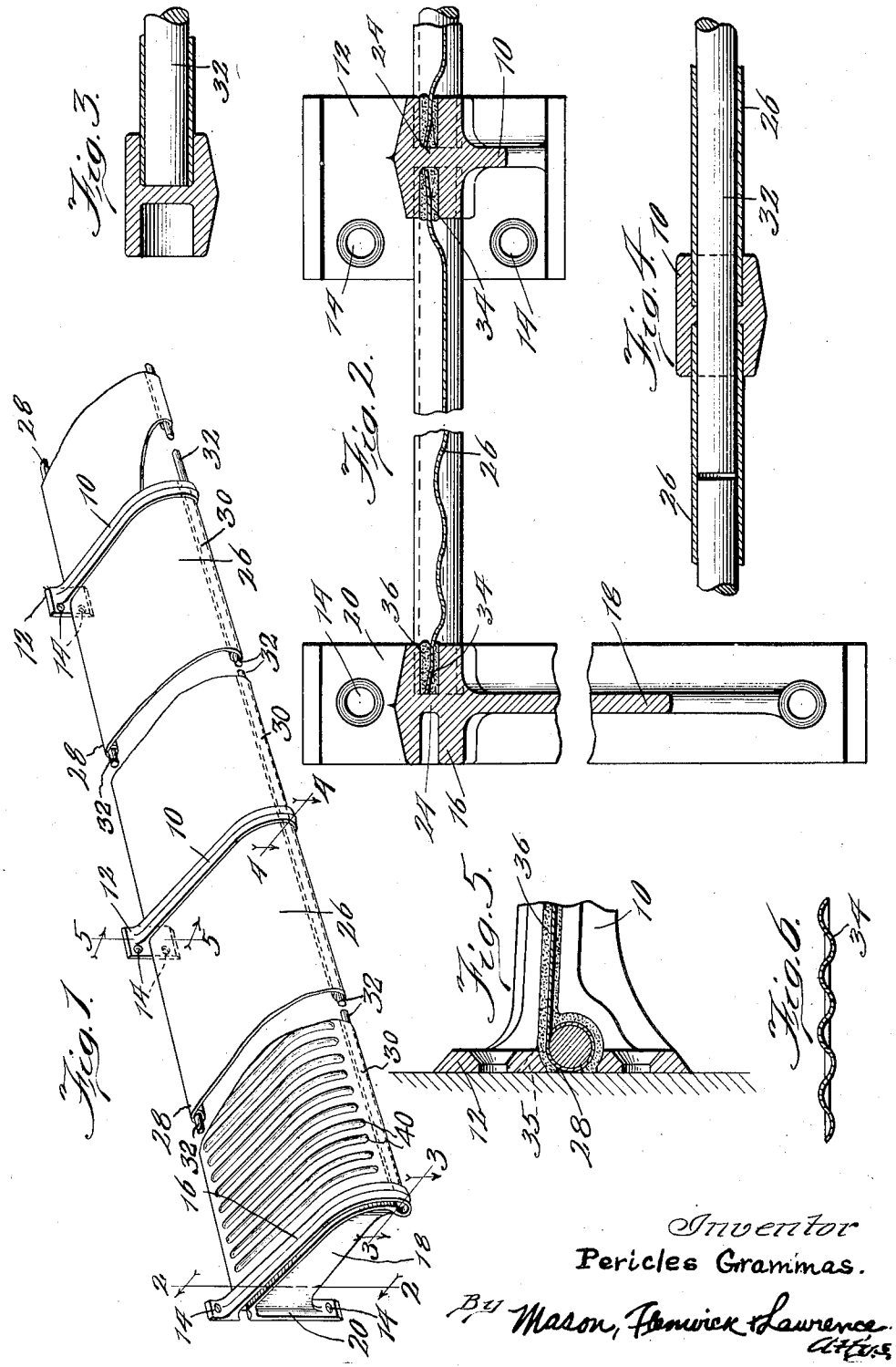
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P. GRAMMAS

SECTIONAL CANOPY FOR AWNINGS

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# UNITED STATES PATENT OFFICE.

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## SECTIONAL CANOPY FOR AWNINGS.

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*To all whom it may concern:*

Be it known that I, PERICLES GRAMMAS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sectional Canopies for Awnings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in canopies or the like, adapted to project outwardly from buildings or window frames, for the purpose of protecting the window, and awning or similar object, from the action of the elements.

One of the main objects of this invention is the provision of a canopy for awnings or the like, which is made in sections and preferably of metal, and of such a construction that it can be readily adapted to any length of awning or breadth of window desired.

An important object of this invention is the provision of a sectional canopy which shall be simple of construction, economically manufactured, strong and durable and constructed in such a manner that it can be readily assembled and installed.

Another object of this invention is the provision of a metallic canopy for awnings or the like made in a plurality of sections which, when assembled, will not come apart in use and which will be weatherproof and rustproof.

Other and further important objects of the invention will be apparent from the disclosures in the accompanying drawings and following specification.

The invention, in a preferred form, is illustrated in the drawings and hereinafter more fully described.

In the drawings:

Fig. 1 is a perspective view of one end of a sectional canopy as constructed in accordance with this invention;

Fig. 2 is a vertical longitudinal section taken substantially in the plane of the line 2—2 of Fig. 1 looking in the direction indicated by the arrows, and parallel to the rear face of the device;

Fig. 3 is a detail horizontal sectional view taken in the plane of the line 3—3 of Fig. 1;

Fig. 4 is a similar view taken on the line 4—4 of Fig. 1;

Fig. 5 is a sectional view taken approximately on a vertical plane passing through the line 5—5 of Fig. 1;

Fig. 6 is a detail view showing the edge construction of the connecting sheet sections.

As shown in the drawings, the canopy proper consists generally of a number of sections supported by a series of outwardly extending brackets 10, having their extending arms curved as illustrated, which form, however, may be varied as desired, and provided with base plates 12 having holes 14 therein adapted for the insertion of screws, nails or other retaining members by means of which the brackets 10 are securely fastened to the walls of a house, window frame or the like. As shown, the end brackets of the canopy, designated by reference numerals 16, are provided with a downwardly extending web 18 which provides for additional protection against rain or wind blowing sidewise and also furnishes a stronger construction. To accommodate the web 18 the bases 20 of the brackets 16 are made elongated as shown, and are provided with holes 14 similar to those in the base members 12. Sheet-like cover members or sections 26, of any desired form or design, are supported by the brackets. As shown, these members may be corrugated, but it is obvious that any other preferred design may be used.

As best shown in Fig. 2, the cross sections of the bracket members 10 and 16 are both of a double channel form having a web 24 extending therethrough which results in a sort of H-bar construction, having slots extending along each side thereof adapted for the reception of the longitudinally extending edges of the cover sections 26. As illustrated in the drawings, the cover members 26 are so shaped as to conform to the outline of the brackets 10 and 16 and the rear or upper edge of these sheet members 26 is rolled into a hollow form, as shown at 28 in the drawings, which provides a more substantial construction and one which is less likely to rust or become cut or torn at the edges. Suitable rounded sockets are provided in the side faces of the brackets 10 and 16 to provide for the reception of the ends of the rounded edges 28. These sockets are so positioned in the brackets that the edges 28 of the sections 26 abut closely against the wall of the building to which the canopy is attached. A filling of cement or

the like, 35, can then be inserted between the rolled edge 28 and the wall, to make a perfectly water-tight construction.

The lower edges of the sheet members 26 are similarly rounded or rolled, as shown at 30, and are provided with rods or pins 32 passing entirely or partially therethrough which, as best shown in the lower right hand corner of Fig. 1, extend from one of the sections 26 through a suitable opening provided therefor in the end of the brackets 10 into the next adjacent member 26, which construction is further illustrated in section in Fig. 4. This provides for a continuity of relation and a more completely assembled and consequently unitary structure. As the rods 32 fit closely in the rolled edges 30, they therefore act, besides connecting the adjacent sheet members 26 together, as reinforcing and strengthening means for the lower edges of the sheets themselves. If desired, the rods 32 may be substituted by a bolt or bar, passing entirely through the entire canopy structure, and provided with screw threaded nuts at either end, whereby the same, together with the supporting brackets, may be pulled up into more closely assembled relation.

As illustrated at 34 in Figs. 2 and 6, the lateral edges of the sheet members 26 may be corrugated or crimped so as to provide a closer fit into the lateral slots of the bracket members 10 and 16. The interstices are then filled with tar, pitch or any waterproof material which renders the joints leakproof, as shown at 36.

I am aware that many changes may be made, and numerous details of construction varied throughout a wide range, without departing from the principles of this invention and I therefore do not purpose limiting the patent granted hereon otherwise than as necessitated by the prior art.

I claim as my invention:

1. In a sectional canopy, a series of brackets, grooves extending longitudinally of said brackets, and sectional cover members fitted into said grooves, said cover members being provided with corrugated edges whereby a more accurate fit is obtained beteen the grooves and said edges.

2. In a sectional canopy, a series of brackets, grooves extending longitudinally of said brackets, and sectional cover members fitted into said grooves, said cover members being provided with corrugated edges whereby a more accurate fit is obtained between the grooves and said edges, and packing means incorporated into said grooves in conjunction with the corrugated edges.

3. In a canopy, a pair of end supporting brackets, webs on said brackets, a plurality of intermediate supporting brackets, longitudinal channels in the arms of all of said brackets, and sectional cover members shaped to correspond with said channels, said sectional cover members being provided with rolled edges extending transversely of the brackets.

4. In a canopy, a pair of end supporting brackets, webs on said brackets, a plurality of intermediate supporting brackets, longitudinal channels in the arms of all of said brackets, and sectional cover members adapted to correspond with said channels, said sectional cover members being provided with rolled edges extending transversely of the brackets and openings in the brackets adapted to receive the ends of said rolled edges.

5. In a sectional canopy, a pair of end brackets comprising outwardly extending arms, channels formed longitudinally in said arms, downwardly extending web members integral with the brackets and arms, and sectional cover members corresponding in shape to the channels in the brackets and adapted to be interfitted therewith, and means extending through the ends of the brackets adapted to connect adjacent cover sections.

6. In a sectional canopy a pair of end brackets comprising outwardly extending arms, channels formed longitudinally in said arms, downwardly extending web members integral with the brackets and arms, and sectional cover members corresponding in shape to the channels in the brackets and adapted to be interfitted therewith, and means extending through the ends of the brackets adapted to connect adjacent cover sections, said means comprising rods having one end mounted in one cover section and with its other end projecting into and mounted in the adjacent cover section.

7. In a canopy, a pair of end supporting brackets, webs on said brackets, a plurality of intermediate supporting brackets, longitudinal channels in the arms of all of said brackets, and sectional cover members adapted to correspond with said channels, said sectional cover members being provided with rolled edges extending transversely of the brackets and with corrugated edges adapted to cooperate with said brackets and at right angles to the rolled edges.

8. In a sectional canopy, a pair of end brackets comprising outwardly extending arms, channels formed longitudinally in said arms, downwardly extending web members integral with the brackets and arms, and sectional cover members corresponding in shape to the channels in the brackets and adapted to be interfitted therewith, and means extending through the ends of the brackets adapted to connect adjacent cover sections, said means comprising a rod extending longitudinally of the canopy.

9. In a sectional canopy, a pair of end brackets comprising outwardly extending

arms, channels formed longitudinally in said arms, downwardly extending web members integral with the brackets and arms, and sectional cover members corresponding in shape to the channels in the brackets and adapted to be interfitted therewith, and means extending through the ends of the brackets adapted to connect adjacent cover sections, said means comprising a rod extending longitudinally of the canopy and retaining means on the ends of the rod.

10. In a canopy, a pair of end supporting brackets, a plurality of intermediate supporting brackets, longitudinal channels in the arms of all of said brackets, and sectional cover members adapted to correspond with said channels, said sectional cover members being provided with rolled edges extending transversely of the brackets, and openings in the brackets adapted to receive the ends of said rolled edges, those openings adjacent the canopy support being so positioned in the brackets that the inner rolled edge of the cover member abuts closely to said support.

11. In a canopy including, in combination, a pair of end supporting brackets, a plurality of intermediate supporting brackets, longitudinal channels in the arms of all of said brackets, and sectional cover members adapted to correspond with said channels, said sectional cover members being provided with rolled edges extending transversely of the brackets, and openings in the brackets adapted to receive the ends of said rolled edges, those openings adjacent the canopy support being so positioned in the brackets that the inner rolled edge of the cover member abuts closely to said support, and a filler between said edge and the support.

In testimony whereof I affix my signature.

PERICLES GRAMMAS.