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CLIP FOR AWNING FRONT RODS

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Fig. 1.

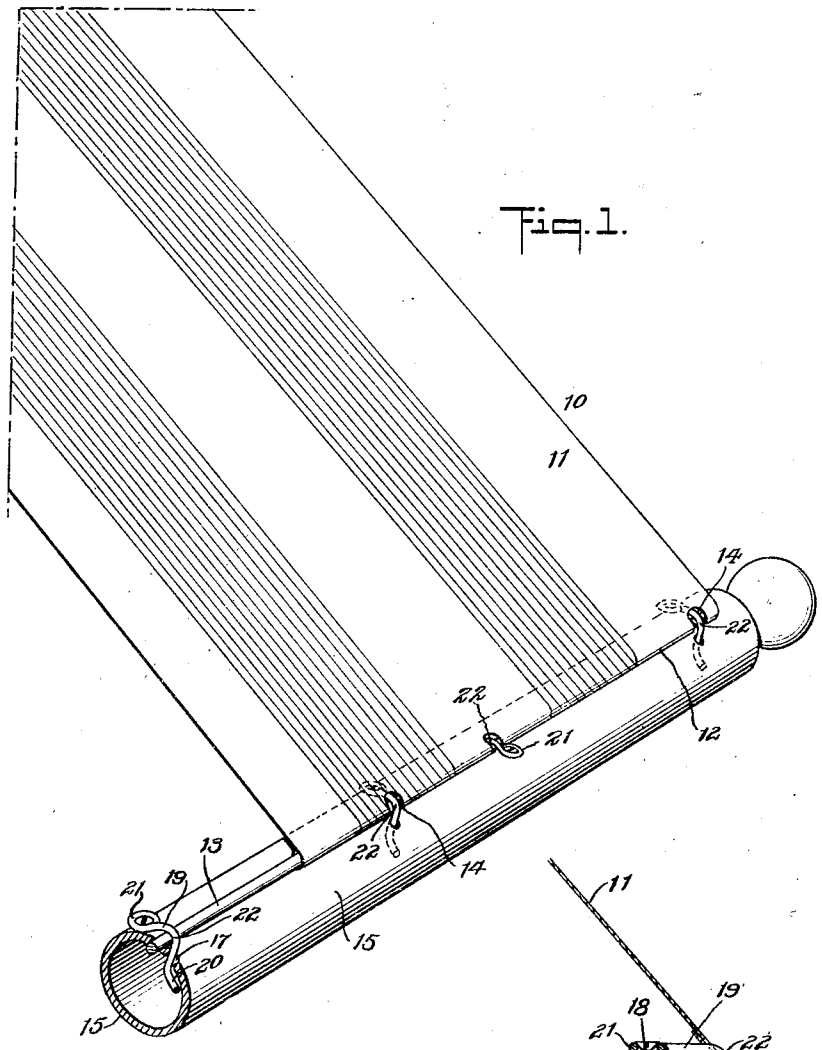


Fig. 2.

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UNITED STATES PATENT OFFICE.

ORVILLE E. PEASE, OF BALDWIN, NEW YORK, AND NORBERT G. JOSEPH, OF TEANECK, NEW JERSEY, ASSIGNORS TO F. J. KLOES, INC., A CORPORATION OF NEW YORK.

CLIP FOR AWNING-FRONT RODS.

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To all whom it may concern:

Be it known that we, ORVILLE E. PEASE, a citizen of the United States, and a resident of Baldwin, county of Nassau, and State of New York, and NORBERT G. JOSEPH, a citizen of the United States, and a resident of Teaneck, county of Bergen, and State of New Jersey, have invented certain new and useful Improvements in Clips for Awning-Front Rods, of which the following is a specification.

The invention relates in general to a fastening means for securing a flexible member, such as an awning, to a rod, such as an awning front rod, and the invention specifically relates to an improvement in awning structures where the front edge of the awning cloth is secured to a weighted ornamental rod defining the front edge of the awning structure.

It is desirable in such constructions to provide a front rod which will be ornamental in appearance and add to the desired pleasing effect of the awning structure. Frequently these rods are formed of bronze or brass and of other metals and with tubular and other configurations to harmonize with the metal parts exposed on the front of the building or other support carrying the awning structures. One prevalent practice is to make the front rod of a relative large diametered brass or bronze tubing and under these conditions it is of course desirable to expose as much of the rod as possible. These rods are made of stock tubing but difficulty has been experienced in providing a neat and at the same time inexpensive means for securing the rod to the awning cloth without covering up the rod.

Accordingly, one of the primary objects of the invention is to provide a simplified means for positively and quickly securing the rod to the awning cloth and at the same time to minimize the extent of concealment of the rod by the affixed cloth.

Broadly, we attain this phase of the invention by securing the front edge of the awning cloth to one side, preferably the top side, of the rod by means of suitable fastening means positioned in spaced relation along the length of the rod and to cause the awning cloth to extend tangentially of the rod from its line of engagement with the same. The stock tube is prepared for receiving the fastening means simply by drilling a pair of apertures for each fastening means and threading one of the apertures to receive a stock machine screw.

Another object of the invention and relating particularly to the fastening means is to provide a form of clip which can be quickly and securely fastened in position for positively securing the awning member to its front rod without necessity of using any other tools except a screw-driver and to provide such a form of fastening means that it can be secured with a single screw.

Still another object of the invention is to provide a form of fastening clip which can be formed from wire with a single wire bending operation.

Various other objects and advantages of the invention will be in part obvious from an inspection of the accompanying drawings and in part will be more fully set forth in the following particular description of one form of mechanism embodying my invention, and the invention also consists in certain new and novel features of construction and combination of parts hereinafter set forth and claimed.

In the accompanying drawings:—

Figure 1 is a fragmentary view of an awning construction with the parts fastened together by fastening means constituting a preferred embodiment of the invention; and

Figure 2 is a transverse sectional view taken through the parts shown in Figure 1 and showing one of the attaching clips largely in side elevation.

In the drawing there is shown an awning member 10 comprising flexible awning cloth 11, the front edge 12 of which is lapped about a relatively small diametered edge rod 13 and secured in place by stitching or by other conventional means. The front edge of the awning cloth is cut away or punched at spaced apart points to form openings 14 designed to expose portions of the rod 13 to accommodate the fastening means hereinafter discussed.

Positioned below the edge rod 13 and extending parallel thereto is a relatively large diametered tubular front member 15, hereinafter identified as the front rod for the awning construction.

In the form herein selected for illustration the rod is of cylindrical form but it is to be understood that rods of other cross-section are used for the purpose of forming

front rods to awnings and that such rods may be substituted for the form illustrated, it simply being required that the wall of the rod be sufficiently thin to permit the intrusion of the fastening means hereinafter described.

At the point where each of the openings 14 is to come the rod is drilled with a pair of apertures 16 and 17 with the apertures spaced apart circumferentially of the front rod a distance sufficient to accommodate the rod 13 therebetween as shown in Figure 2. One of the apertures, such as the apertures 16 is threaded to receive a relatively short machine screw 18 but there is no necessity of threading or otherwise machining the opening 17.

An S-shaped clip 19 is positioned at each pair of apertures and is designed to pass through its associated opening 14 and to secure the exposed part of the rod 13 in engagement with the outer face of the rod 15. The clip comprises relatively straight end portions 19′ and 20 and which in the illustrated form are angularly disposed relative to each other and forming an obtuse angle of about 100°. The end 20 is designed to be intruded in through the opening 17, so as to extend approximately perpendicular to the axis of the aperture 17 and to lie against the inner face of the tube as particularly shown in Figure 2. The other end is bent back upon itself to form an eye 21 adapted to be disposed concentrically of the aperture 16. The screw 18 is passed through the ring 21 and threaded into the opening 16 and secures the clip fixedly in position.

The intermediate portion of the clip, at the apex of the angle formed by the ends 19′ and 20, is bent outwardly to form an open loop 22 overlapping the rod 13. The bending of the clip is so regulated that when the clip is in position the rod 13 will be held snugly in bearing engagement with the outer face of the front rod.

Preferably the opening 14 in the cloth is made as small as possible and parts are assembled so that the screw 18, eye 21 and adjacent portion of the clip are concealed beneath the awning cloth. The parts can be so proportioned and care can be exercised in installing the parts that the clip is hardly noticeable and there is produced, in effect, a front rod almost entirely exposed and with the awning cloth extending neatly upwardly and away from the upper side of the exposed rod.

Should it be desired to replace a worn or damaged clip it is simply necessary to loosen the screw of the clip which is to be replaced, substitute another clip and replace the screw.

While we have shown and described, and have pointed out in the annexed claims, certain novel features of my invention, it will be understood that various omissions, substitutions and changes in the form and details of the device illustrated and in its operation may be made by those skilled in the art without departing from the spirit of the invention.

Having thus described our invention, we claim:—

1. In an awning, the combination of a tubular front rod provided with a pair of circumferentially spaced apertures, an awning cloth provided with an edge rod extending parallel to the front rod, a securing clip disposed in a plane perpendicular to the lengths of said rods, said clip lapping the edge rod to secure the awning cloth to the front rod, one end of said clip intruded into one of the apertures, the other end of the clip bent back upon itself to form an eye and a screw extending through said eye and threaded into the other aperture.

2. In an awning, the combination of a tubular front rod provided with a pair of circumferentially spaced apertures, an awning cloth provided with an edge rod extending parallel to the front rod and positioned between the apertures, said cloth extending tangentially from the front rod leaving this rod substantially exposed, an S-clip having one end intruded into one of the apertures lapping the edge rod and means intruded into the other aperture for securing the clip in place.

3. In an awning, the combination of an edge rod, an awning cloth having its front edge lapped about said rod, a tubular front rod extending parallel to the edge rod, and means intruded into and confined to one side of the front rod for engaging the edge rod to secure the awning cloth to the front rod thereby to permit the exposure of substantially all of the front rod.

4. In an awning, the combination of an edge rod, an awning cloth having its front edge lapped about the edge rod, a line of stitching for securing the cloth fixedly to the edge rod and removable therewith, a front rod positioned exteriorly of the awning cloth and beneath the same and means for demountably securing the edge rod to the front rod and for hanging the front rod from the front edge of the awning cloth.

5. A clip for securing an awning member to a front rod comprising a wire having end portions for engaging the rod and having its intermediate portion bent into an open loop approximately a right angle and adapted to extend away from the rod to accommodate a portion of the awning member between the loop and rod and one end constituting a screw receiving eye disposed in a plane at an angle to the plane of the loop.

6. A clip for securing an awning cloth to a front rod comprising an end adapted to be intruded into the rod, an intermediate portion adapted to engage the cloth and having the other end bent back upon itself to form an eye adapted to receive a fastening means and a demountable fastening means passed through said eye to secure the clip to the front rod.

7. An S-clip having substantially straight end portions angularly disposed, the intermediate portion bent on a curve to form an open loop and one bend bent back upon itself to form a screw eye.

This specification signed this 25th day of September, 1924.

ORVILLE E. PEASE.
NORBERT G. JOSEPH.