

No. 629,754.

Patented July 25, 1899.

R. M. POPHAM.
GROMET OR EYELET.
(Application filed May 13, 1898.)

(No Model.)

Fig. 1.

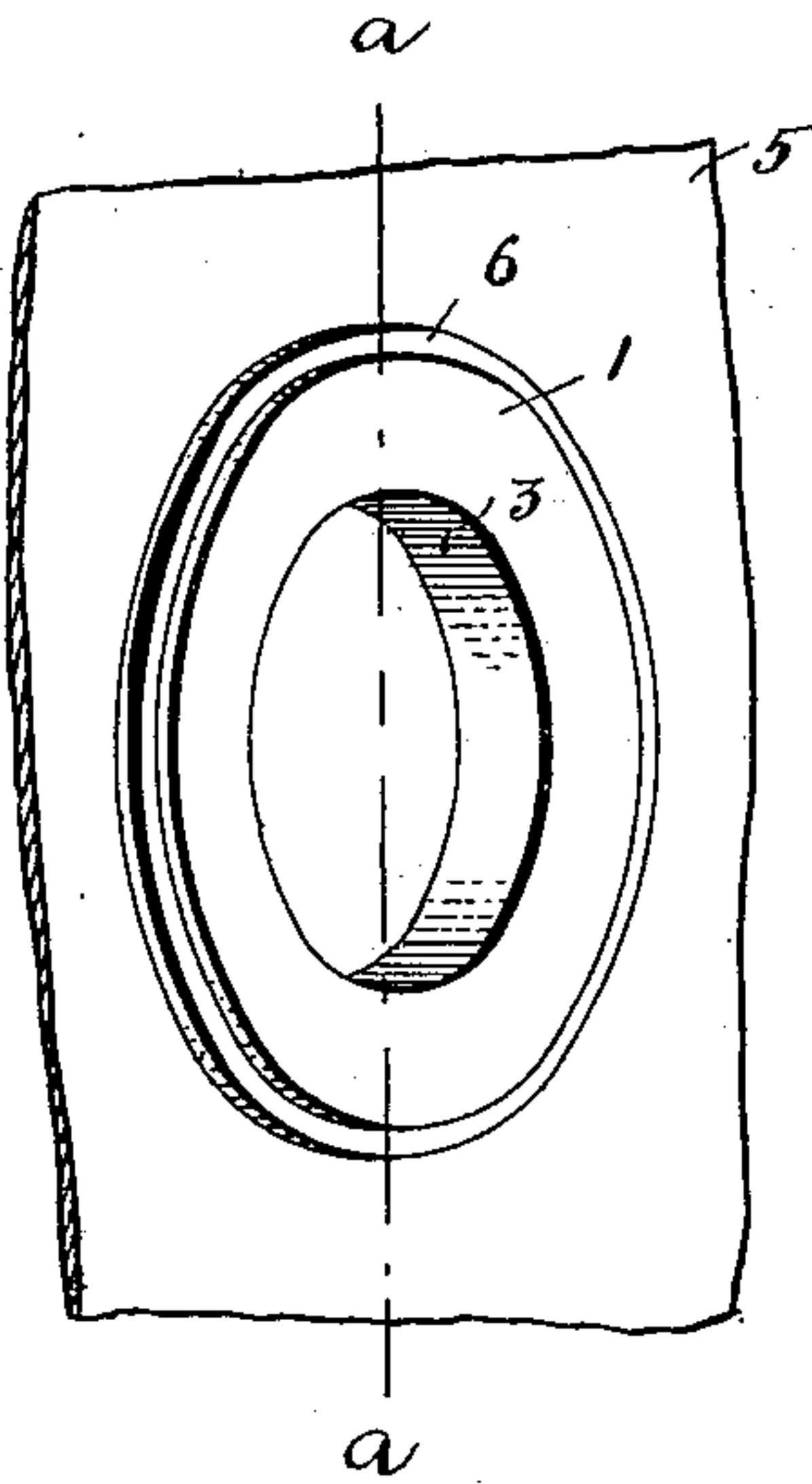


Fig. 3.

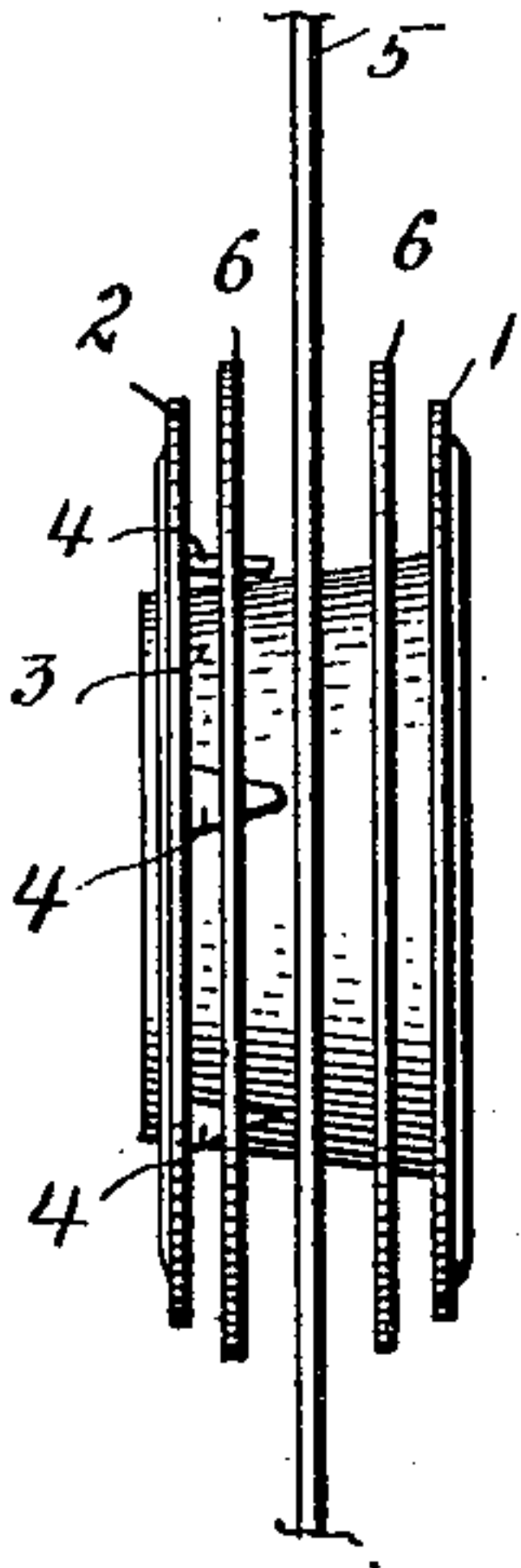


Fig. 4.

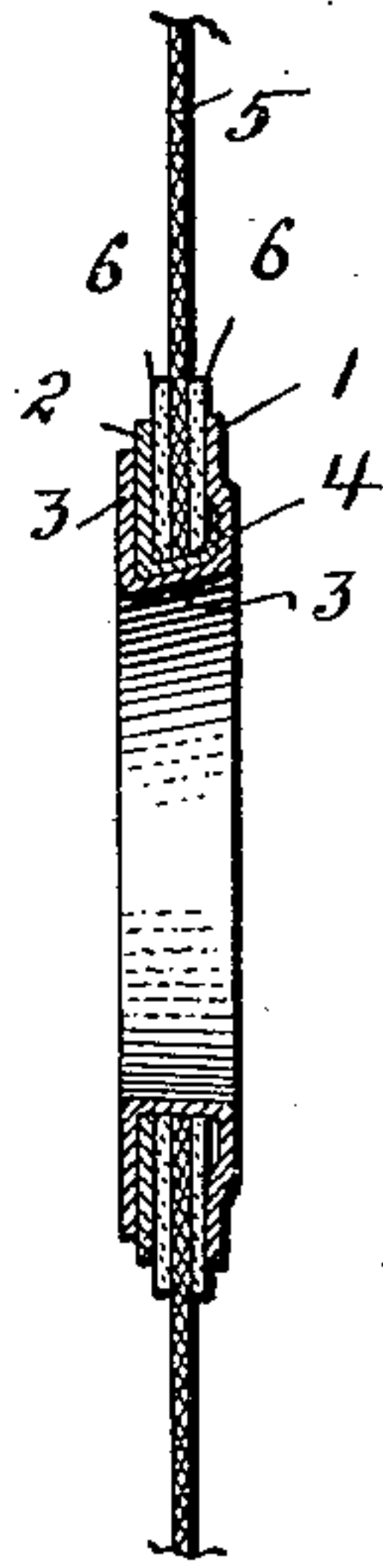
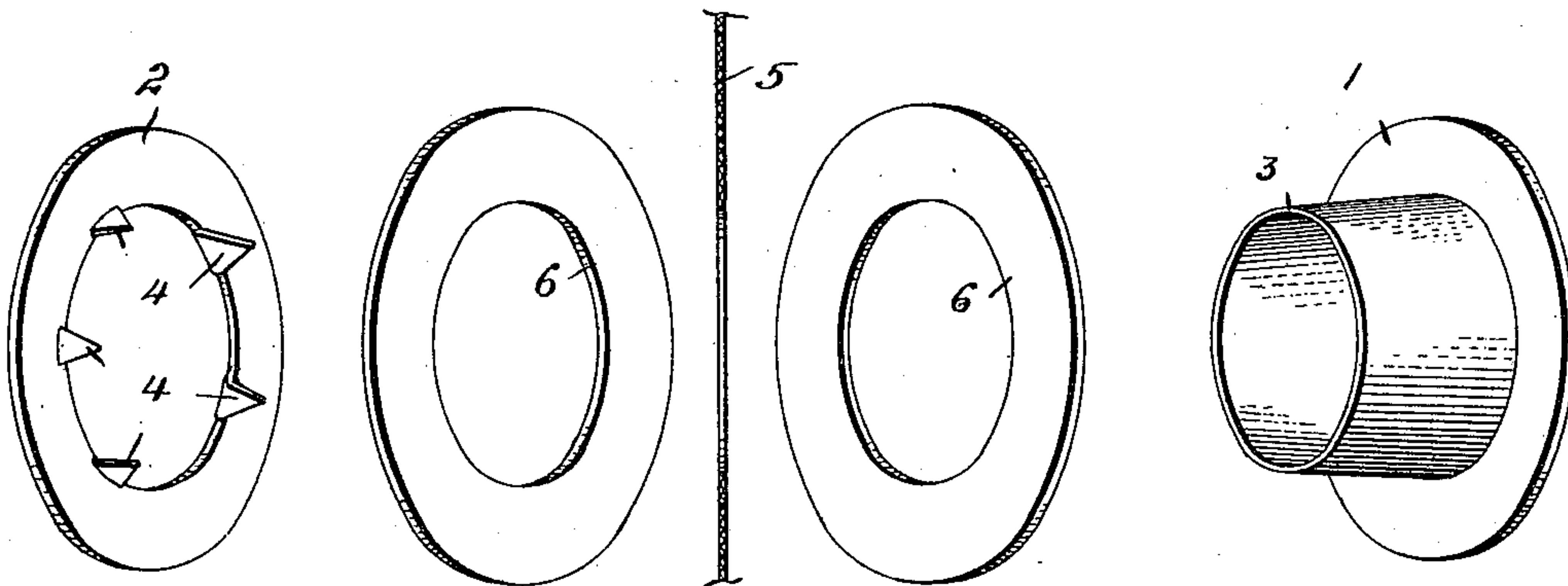


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

RICHARD M. POPHAM, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-FOURTH TO CHARLES W. HAYES, OF WASHINGTON, DISTRICT OF COLUMBIA.

GROMET OR EYELET.

SPECIFICATION forming part of Letters Patent No. 629,754, dated July 25, 1899.

Application filed May 13, 1898. Serial No. 680,629. (No model.)

To all whom it may concern:

Be it known that I, RICHARD MORRIS POPHAM, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Gromets or Eyelets; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention has relation to certain new and useful improvements in gromets or eyelets, and is designed to provide means whereby a water-tight joint may be formed between the flanges of the device and the canvas or other material in which it is inserted, whereby such material is prevented from rotting and weakening and the gromet or eyelet from tearing out.

With this object in view the invention consists in the combination, with the flanged members composing the gromet or eyelet, of resilient washers of waterproof material interposed and seated between the flanges of such members and the adjacent surfaces of the canvas or other material in which the gromet or eyelet is seated.

It also consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claims.

In the accompanying drawings, illustrating the invention, Figure 1 is a perspective view showing the device as applied. Fig. 2 is a perspective view showing the parts separated. Fig. 3 is an edge view of the parts assembled before clenching, and Fig. 4 is a section on the line *a a* of Fig. 1.

In the drawings the numerals 1 and 2 designate, respectively, the male and female members of which the gromet or eyelet is composed. The male member 1 consists of an annular outer end portion or flange, with a hollow boss or shank 3 surrounding its central opening and projecting inwardly therefrom. This boss or shank is preferably of

the tapered or frusto-conical form indicated in the drawings. The female member 2 consists of an annular ring or flange having struck up from its inner edge or circumference a series of inwardly-projecting points or prongs 4.

5 5 designates a piece of canvas or other fabric to which I have shown the device as applied, and 6 6 designate two annular washers of thin resilient waterproof, or substantially waterproof, material. These washers may be cut from thin sheets of rubber or rubber fabric or from other suitable material of waterproof nature or which has been treated to a waterproofing process or coating.

The parts are assembled as shown in Fig. 3, the washers 6 being placed upon the hollow tapered shank 3 of the male member, one upon each side of the canvas, the end portion or point of said shank being inserted in the opening of the female member and surrounded by the points or prongs 4. The parts are then fully seated and clenched by means of a suitable tool or implement, the prongs or points 4 penetrating the canvas and the washers and rolling outwardly and clenching on the male member, the end portion of the shank 3 being turned outwardly and upset or clenched upon the outer side of the female member.

The washers 6, it will be observed, are compressed and seated snugly and tightly between the respective flanges of the device and the adjacent surfaces of the canvas and serve to effectually exclude water and moisture, thereby preventing rotting of the canvas and its weakening and tearing away around the gromet or eyelet.

The device above described may be used wherever devices of this character are requisite, although it is more particularly designed for use where the part to which it is applied is subject to exposure to wet or moisture—as, for instance, in tents and sails.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a gromet or eyelet, the combination with the flanged members composing the same, of washers of resilient waterproof material seated between the flanges of the said members and the material in which the

gromet or eyelet is seated, substantially as specified.

2. The herein-described gromet or eyelet, comprising a male member having a flange
5 and a hollow shank, a female member of annular or flange form with prongs or points projecting inwardly from the inner edge of its central opening, and annular washers of resilient waterproof material seated upon said
10 shank upon opposite sides of the material in which it is inserted and between the same and the flanges of the respective members, substantially as specified.

3. The herein-described gromet or eyelet, consisting of the flanged and clenched male 15 and female members, and the thin washers of waterproof material seated and compressed between the flanges of the said members and the material in which they are seated, substantially as specified. 20

In testimony whereof I affix my signature in presence of two witnesses.

RICHARD M. POPHAM.

Witnesses:

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