

(No Model.)

R. BRASS.

GROMMET.

No. 395,478.

Patented Jan. 1, 1889.

Fig. 3.

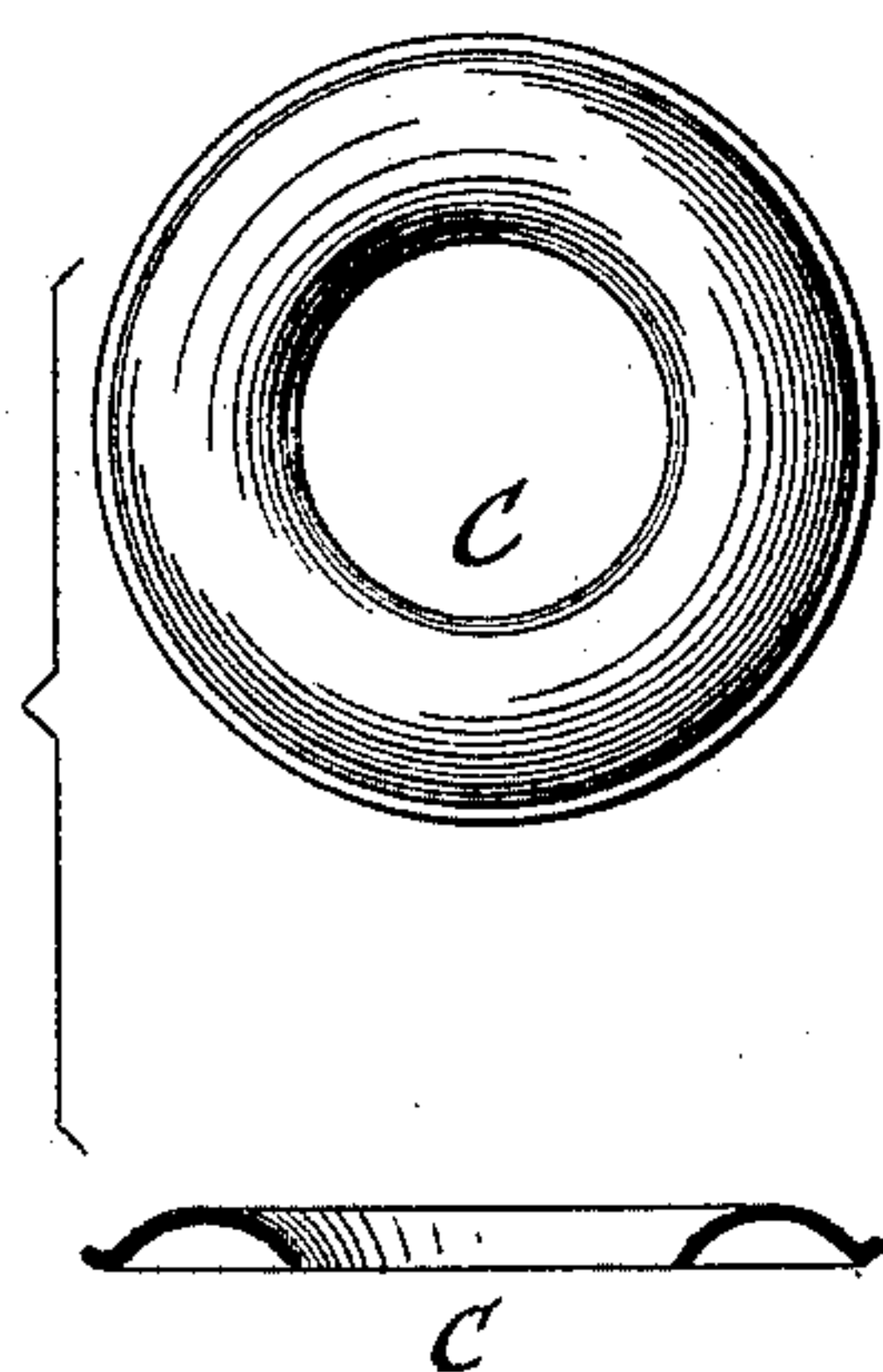


Fig. 1.

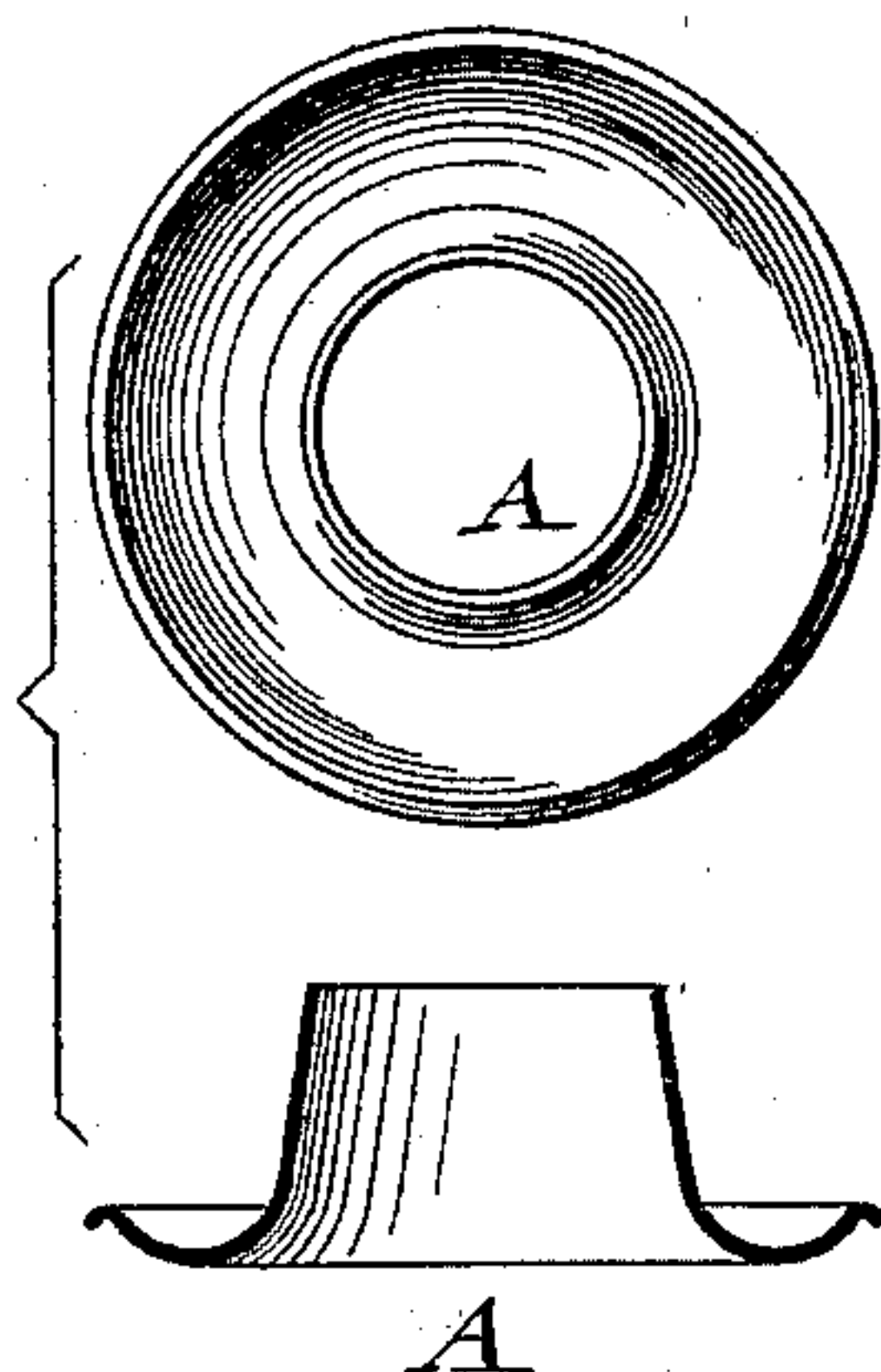


Fig. 2.

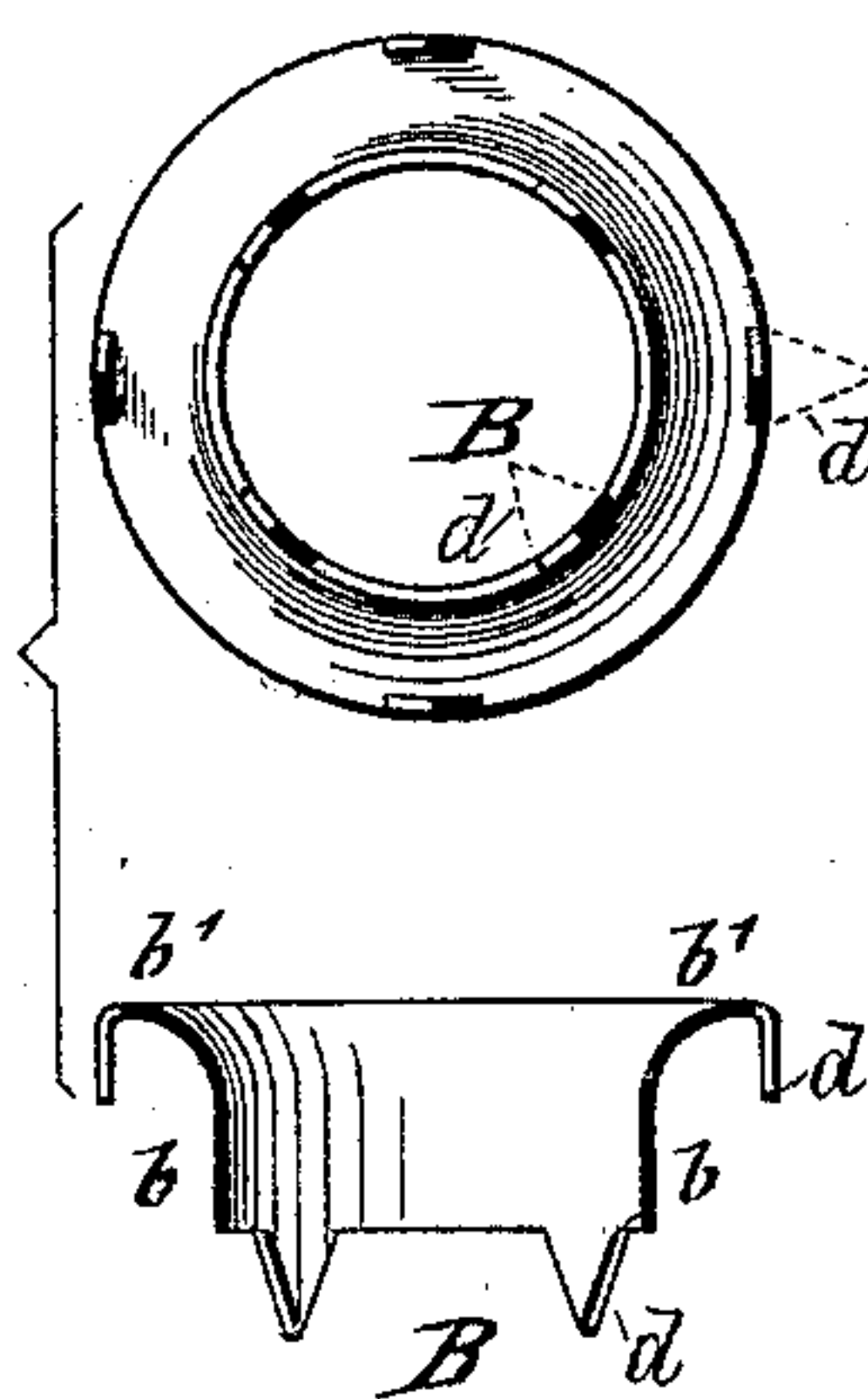


Fig. 4.

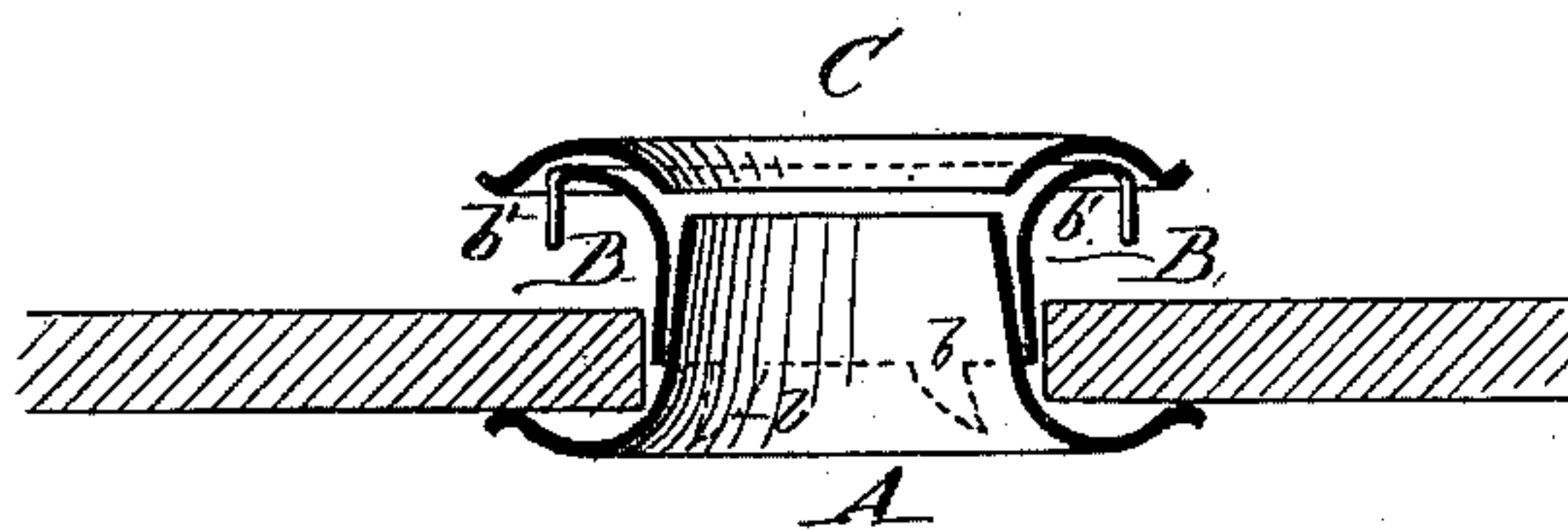
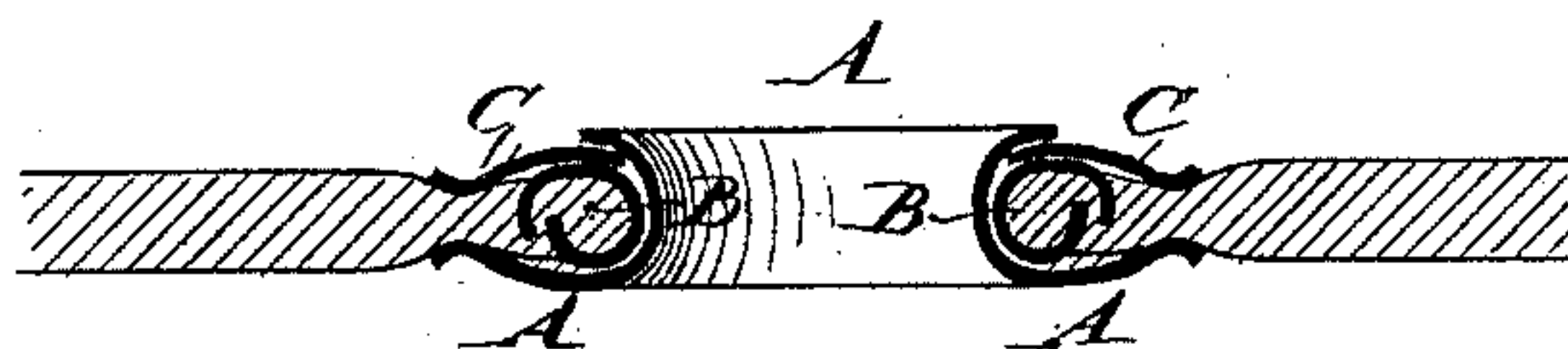


Fig. 5.



Witnesses,

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UNITED STATES PATENT OFFICE.

ROBERT BRASS, OF BROOKLYN, NEW YORK, ASSIGNOR TO JOHN BOYLE, OF
SAME PLACE.

GROMMET.

SPECIFICATION forming part of Letters Patent No. 395,478, dated January 1, 1889.

Application filed May 28, 1888. Serial No. 275,334. (No model.)

To all whom it may concern:

Be it known that I, ROBERT BRASS, of Brooklyn, in the county of Kings and State of New York, have invented certain new and
5 useful Improvements in Grommets, of which the following is a specification.

This invention relates to an improved construction of grommet, by which the spreading of the opening in the fabric to which the
10 grommet is applied and the raveling or fraying out of the fabric is entirely prevented and a grommet obtained that binds in a reliable manner on the fabric without getting detached from the fabric; and the invention
15 consists of a grommet composed of a flanged thimble, an eyelet having bent-up and alternating prongs at both edges for piercing the fabric, and a washer that extends over the eyelet and is retained by the clinched shank
20 of the thimble.

In the accompanying drawings, Figure 1 represents, respectively, a top view and vertical central sections of the thimbles; Fig. 2,
25 a bottom view and a vertical central section of the eyelet, and Fig. 3 a top view and a vertical central section of the washer, of my improved grommet. Fig. 4 is a vertical central section of the grommet before the same is clinched onto the fabric; and Fig. 5 is a
30 vertical central section of the grommet, showing it as clinched to the fabric.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents the clinched
35 thimble, B the eyelet, and C the washer, which together form my improved grommet. The thimble A and washer C are made in the usual shape, while the eyelet B, which is interposed between the flanged thimble and
40 washer, is made with a tubular shank, *b*, having an outwardly-bent flange, *b'*. The edge of the shank *b* and the edge of the flange *b'* are provided with prongs *d d*, which alternate with each other, and which, when
45 the eyelet is clinched, are forced through the fabric, so as to rigidly bind the eyelet on the same.

The grommet is applied to the fabric in

the well-known manner by first passing the shank of the thimble through the hole in the
50 fabric, then placing the shank of the eyelet over the shank of the thimble, and finally placing the washer over the flange of the eyelet, as shown in Fig. 4, and then clinching
55 the three parts together, so that they tightly bind the fabric. In clinching the parts (which is accomplished by suitable dies) the eyelet is applied tightly to the fabric, the teeth or prongs of the same piercing the fabric from opposite sides, while part of the eye-
60 let is bent or doubled up around the edge of the opening until the teeth of the lower edge of the eyelet pierce the fabric from below and bind on the same in the nature of a jaw, as shown in Fig. 5, the teeth of the upper
65 edge entering the fabric firmly. The flange of the thimble and the washer, retained by the outwardly-bent shank of the thimble, form a second connection with the fabric at some distance from the eyelet, whereby a
70 twofold connection with the fabric is obtained—that of the eyelet and that of the thimble and washer. By this twofold connection the stretching or spreading of the fabric at the opening around which the grommet
75 has been applied is prevented, and consequently the raveling or fraying out of the fabric effectually prevented. The flanged thimble and the covering-washer form a protection for the eyelet inclosed thereby, and
80 form a grommet of great strength and rigidity. The eyelet can be made round, oblong, or in any other shape, according to the shape of the grommet with which it is intended to be used.

I do not claim, broadly, in this application the eyelet shown in Fig. 2, as such an eyelet provided with alternating teeth or prongs at both edges is specifically shown and claimed in an application made by me May 28, 1888,
85 Serial No. 275,335, it being shown in this application only in combination with the flanged thimble and the washer.

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

A grommet composed of a flanged thimble,
an intermediate flanged eyelet provided with
teeth or prongs at both edges, said prongs
alternating with each other, and a washer ex-
5 tending over the eyelet and secured by the
clined shank of the thimble, substantially
as set forth.

In testimony that I claim the foregoing as
my invention I have signed my name in pres-
ence of two subscribing witnesses.

ROBERT BRASS.

Witnesses:

PAUL GOEPEL,
JOHN A. STRALEY.