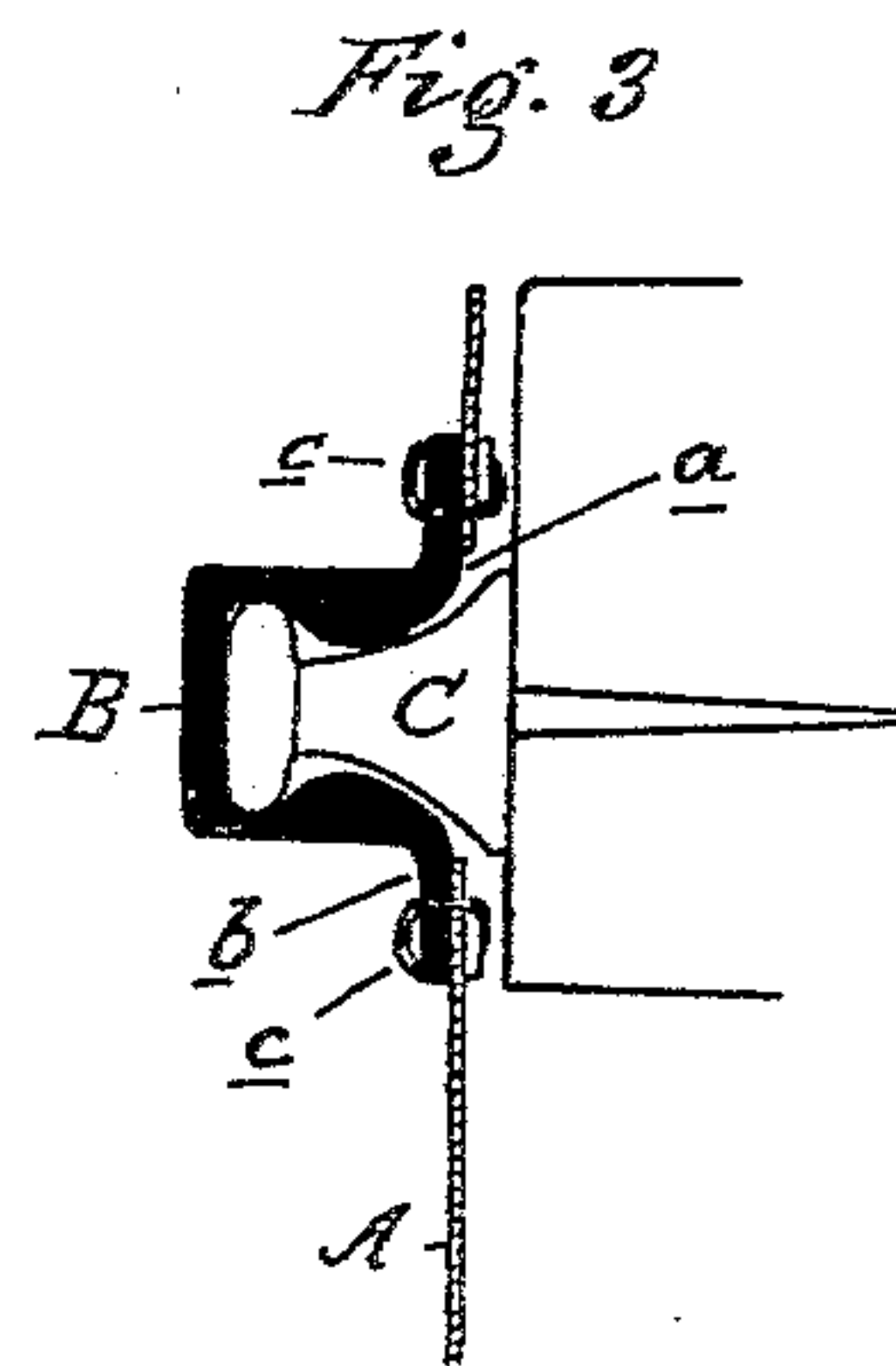
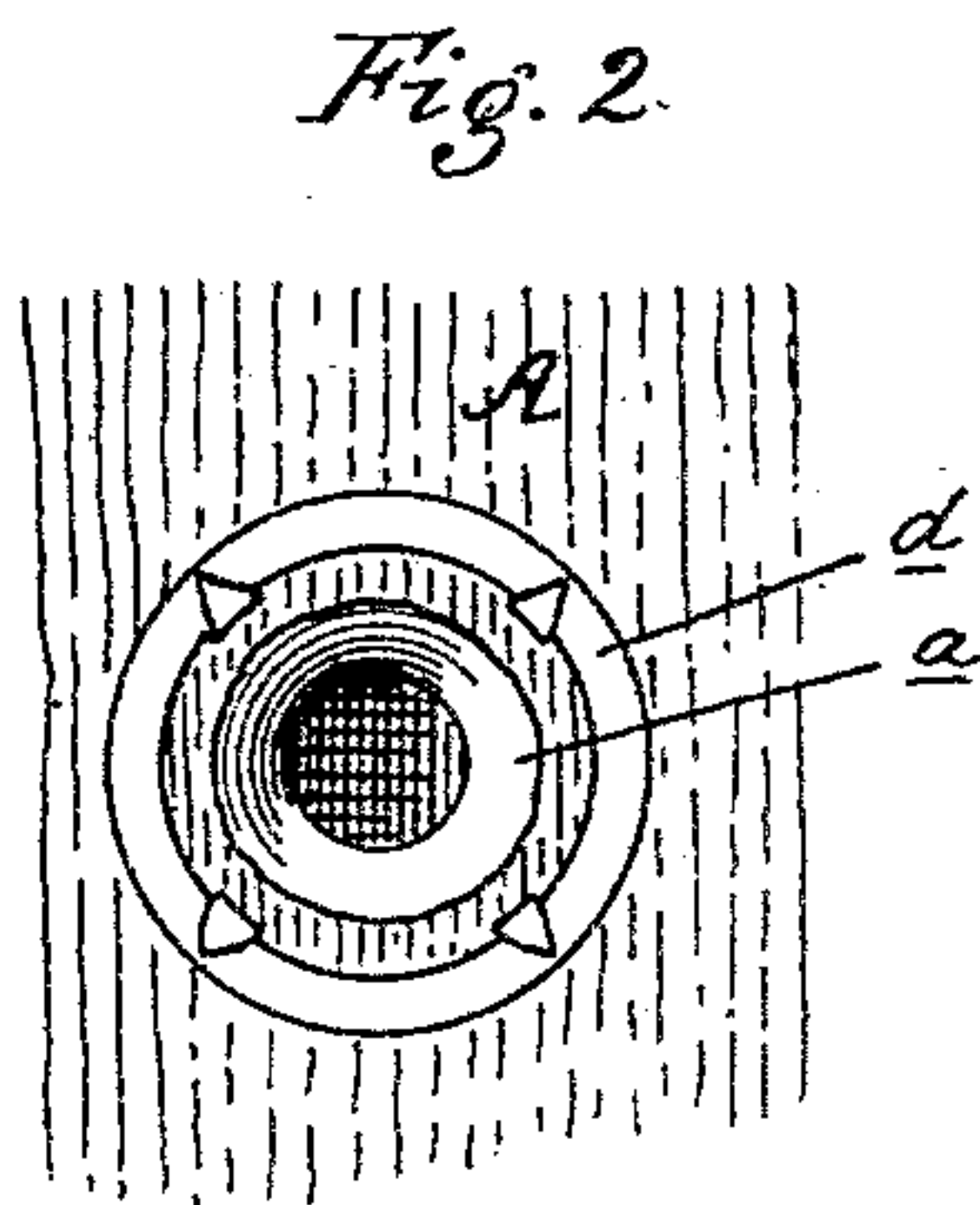
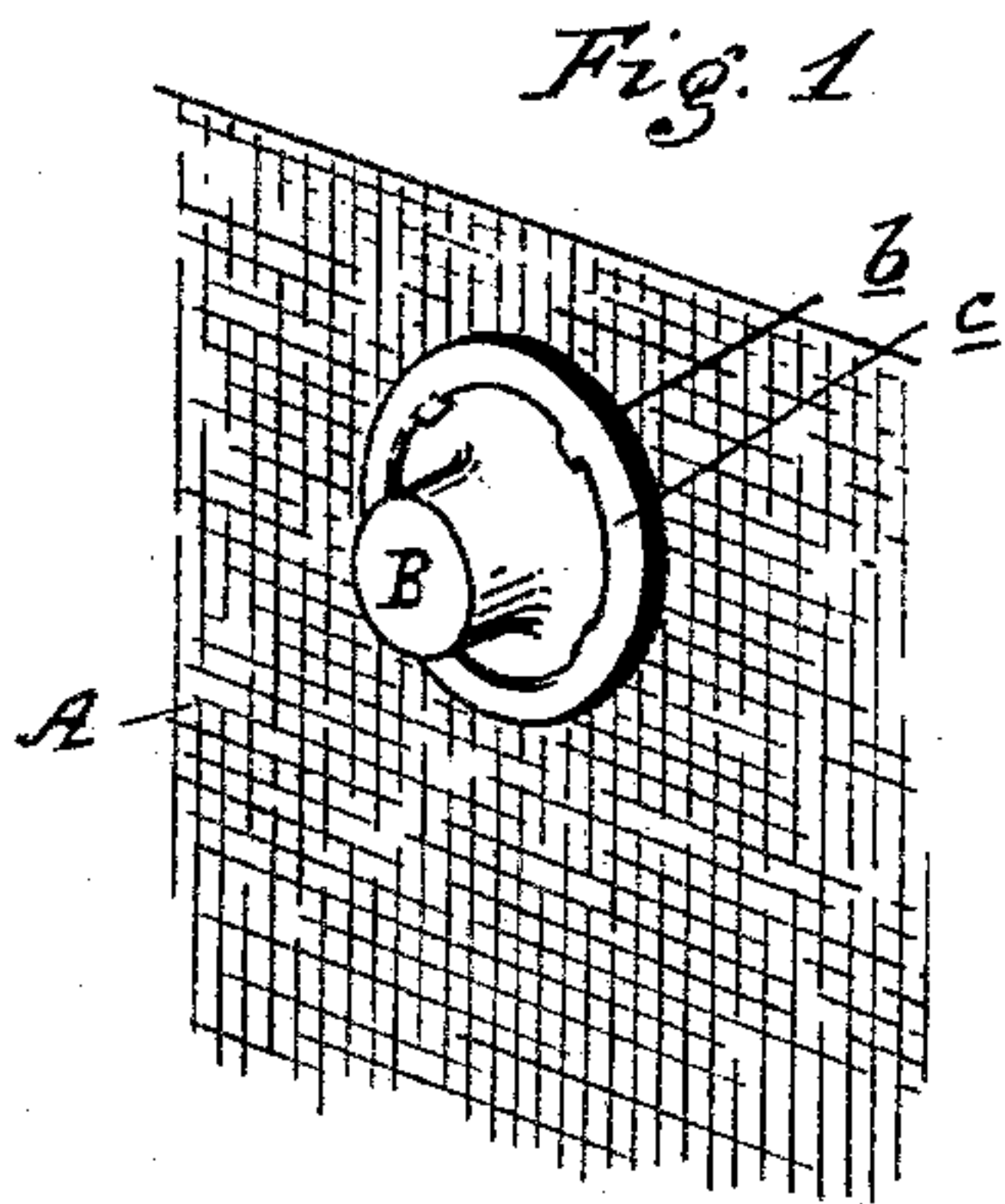


(No Model.)

W. DOWNHAM.
CARRIAGE CURTAIN ATTACHMENT.

No. 300,451.

Patented June 17, 1884.



Attest:
A. Barthel
E. Scully.

Inventor:
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by Atty Thos. S. Sprague

UNITED STATES PATENT OFFICE.

WILLIAM DOWNHAM, OF ST. JOHN'S, MICHIGAN, ASSIGNOR OF ONE-HALF
TO PORTER K. PERRIN, OF SAME PLACE.

CARRIAGE-CURTAIN ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 300,451, dated June 17, 1884.

Application filed April 26, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM DOWNHAM, of St. John's, in the county of Clinton and State of Michigan, have invented new and useful
5 Improvements in Carriage-Curtain Attachments; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.
10 tion.

This invention relates to certain new and useful improvements in devices for securing flexible carriage-curtains to the frame of the top, by means of which the liability of accidental derangement or tearing out of the button-holes of the curtain is reduced to the minimum. Removable carriage-curtains are usually provided with button-holes stayed in many known ways, which button-holes are engaged
15 with button-studs which are secured to the proper parts of the top frame and body of the vehicle. High winds and other causes at times produce so great a strain upon these button-holes that, no matter how well stayed they
20 may be, they tear out.
25

The object of the present invention is to do away with the button-holes as ordinarily made, and substitute therefor an elastic thimble adapted to engage with and entirely cover
30 the projecting button-studs, and so secured to the curtain that there is very little liability to damage.

Figure 1 is a perspective view of a section of a curtain with my elastic thimble attached.
35 Fig. 2 is an elevation of the reverse side of the same. Fig. 3 is a horizontal central section through the stud, button, and thimble.

In the accompanying drawings, which form a part of this specification, A represents a

flexible carriage-curtain, provided near one of its edges (or both edges, as the case may be) with as many round holes *a* as may be necessary. Upon the outer face of the curtain, and over each of the holes, there is placed a thimble, B, which is made from rubber and
40 provided with an annular flange, *b*, which, when in place, rests against the face of the curtain, with the flange surrounding the holes, and is secured to the curtain by means of the annular ring *c*, from the inner face of which
45 project small spurs, which are forced through the flange and curtain and engage with the annular ring *d*, which rests against the inner face of said curtain. By these means a desirable and safe substitute is obtained for the ordinary
50 button-hole, which engages with the stud-button C, the head of which is forced through the hole in the curtain and into the thimble, the elasticity of which secures the parts together.

I do not desire to confine my invention to carriage-curtains, as it is evident that it may be employed in very many other cases.

What I claim as my invention is—

1. In combination with a curtain, a thimble made of elastic material and secured over and
65 around button-holes in said curtain, as a means of securing said curtain to a button-stud, substantially as described.

2. In combination with a stud-button, the thimble B, provided with annular flange *b*,
70 the annular ring *c*, and the ring *d*, as a means of securing a curtain to a button, substantially as and for the purposes specified.

WILLIAM DOWNHAM.

Witnesses:

HENRY M. PERRIN,
WM. E. SLADE.