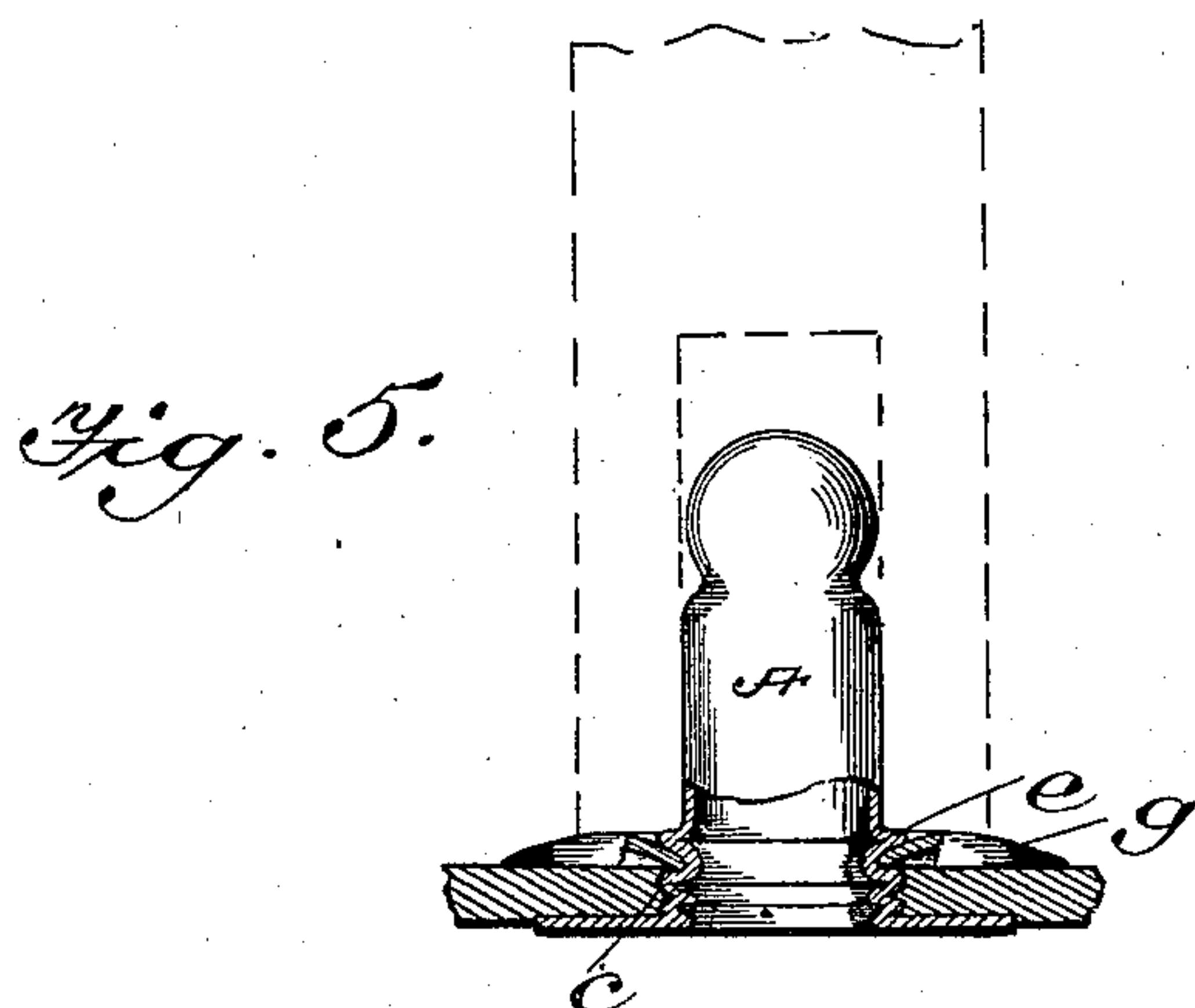
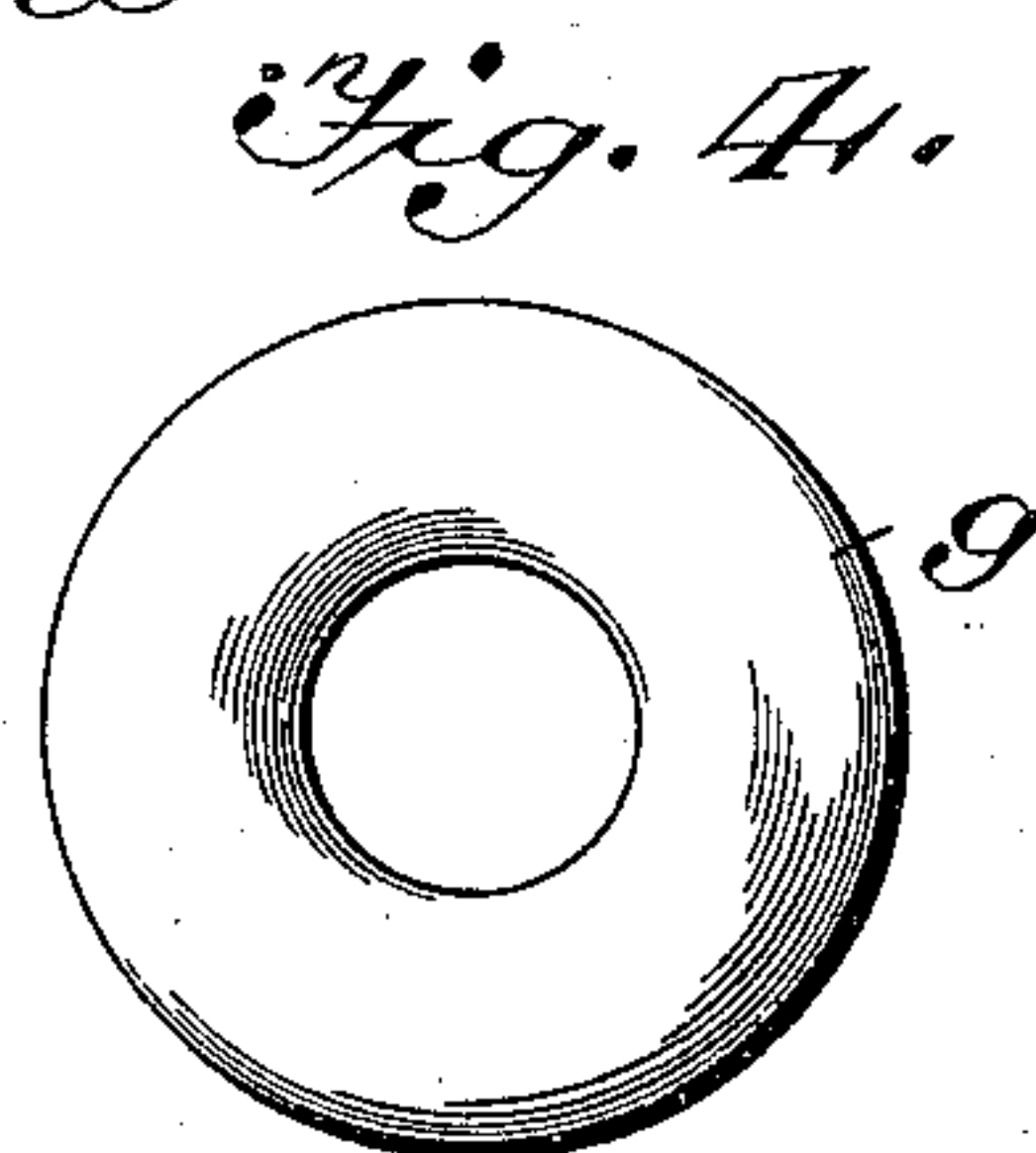
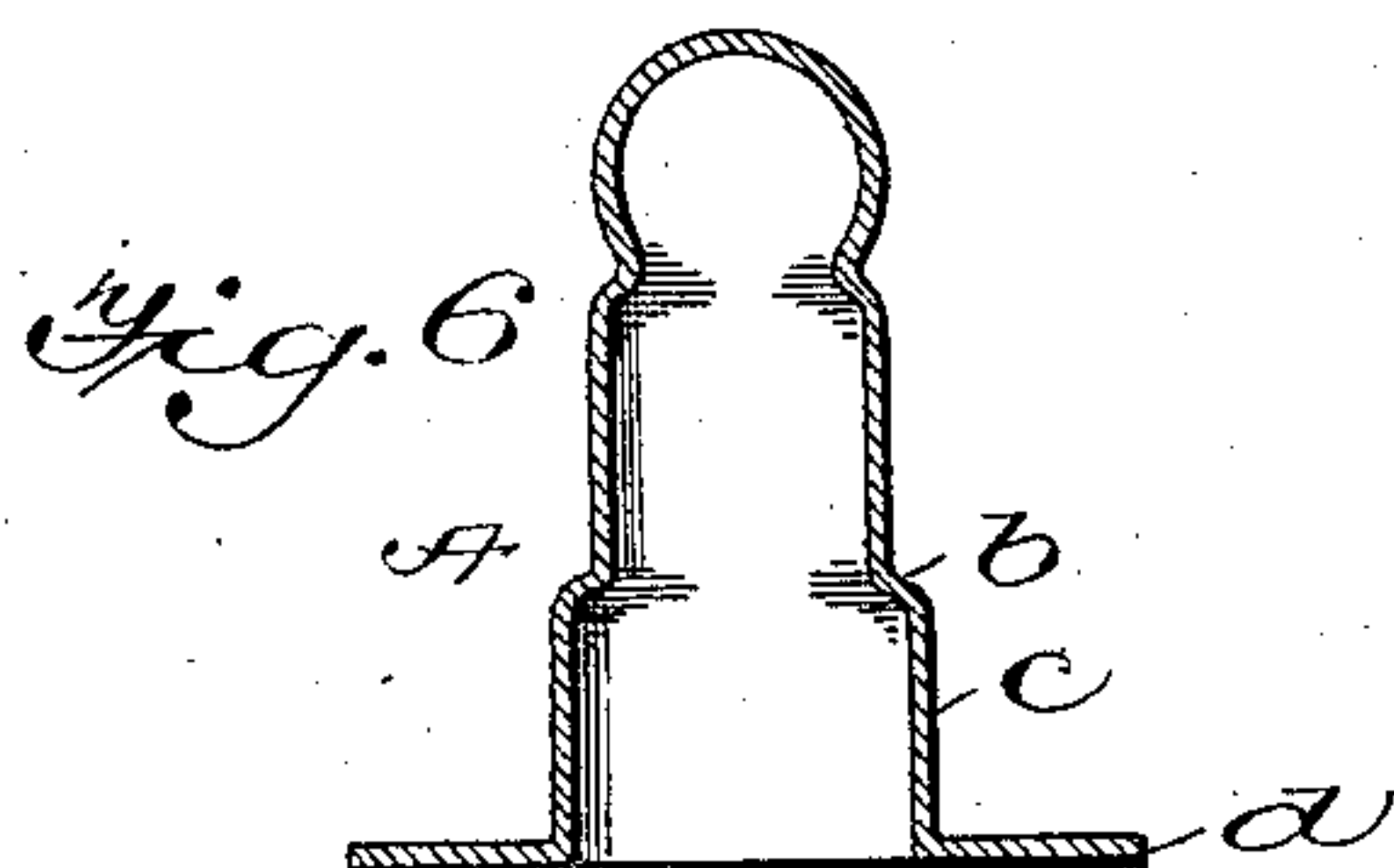
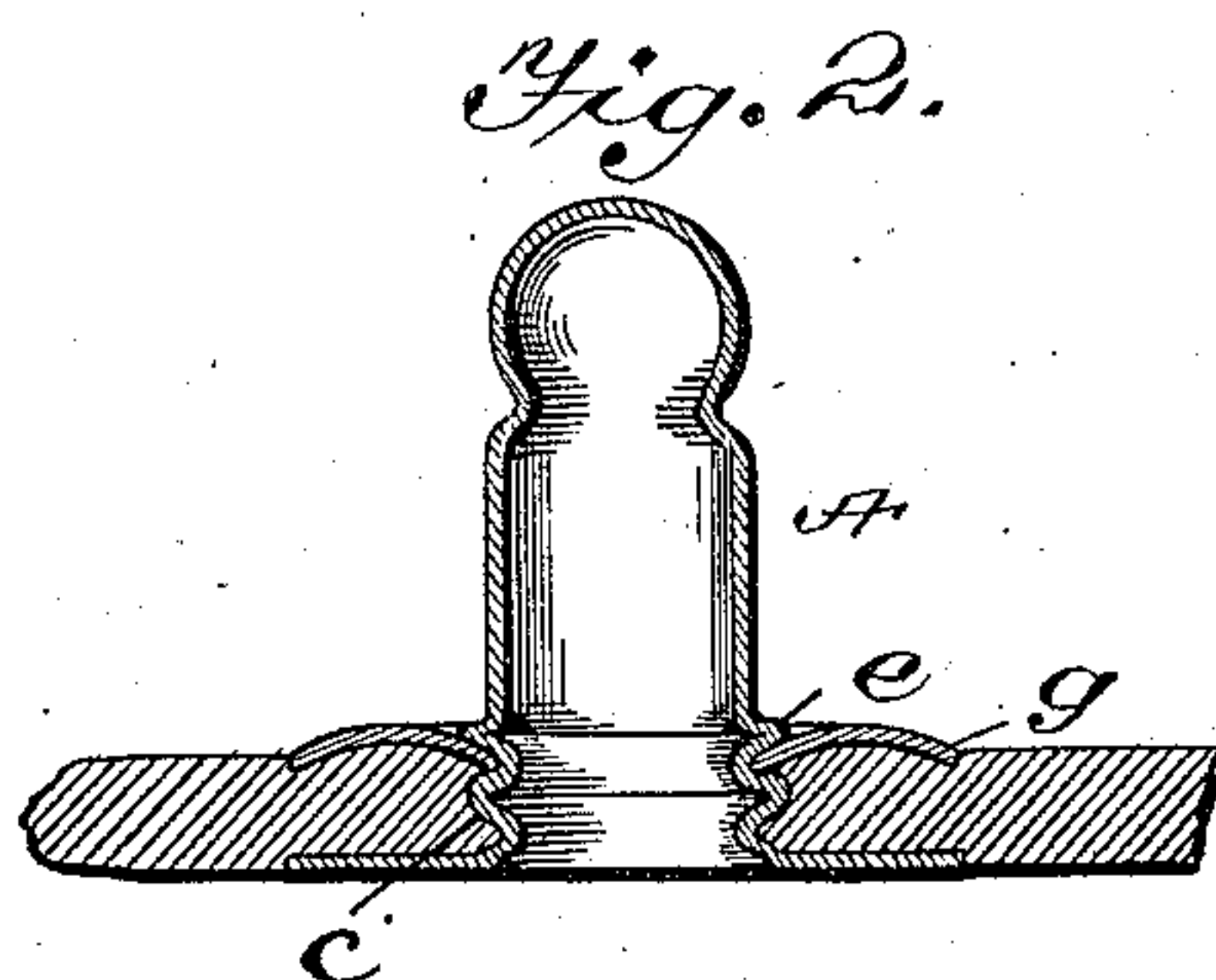
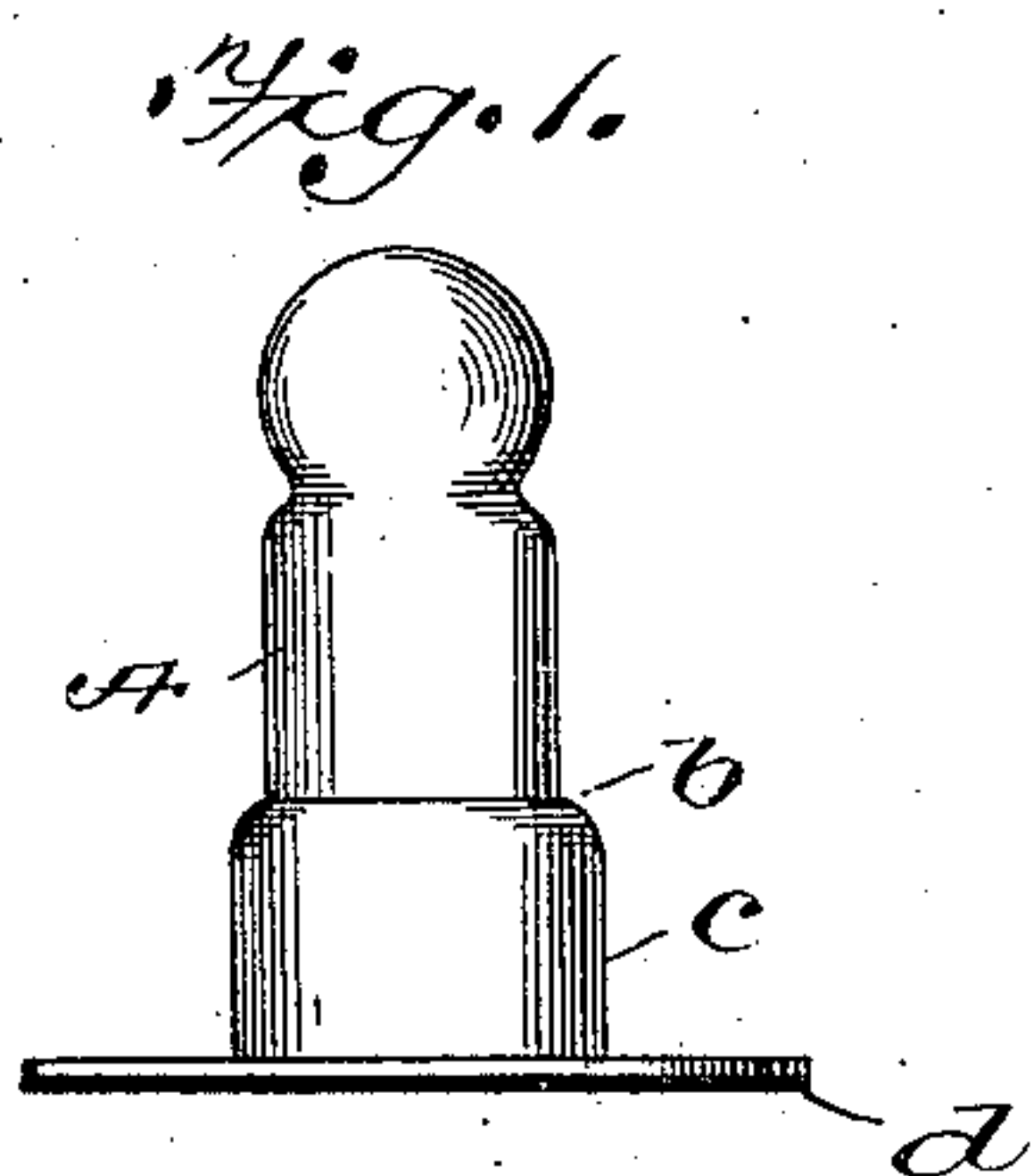


(No Model.)

E. PRINGLE.
SEPARABLE BUTTON.

No. 577,208.

Patented Feb. 16, 1897.



Witnesses

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M. D. Fupman

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UNITED STATES PATENT OFFICE.

EUGENE PRINGLE, OF GLOVERSVILLE, NEW YORK, ASSIGNOR TO MADISON D. SHIPMAN, CHARLES E. BRADT, AND SAMUEL E. BRADT, OF DE KALB, ILLINOIS.

SEPARABLE BUTTON.

SPECIFICATION forming part of Letters Patent No. 577,208, dated February 16, 1897.

Application filed April 29, 1896. Serial No. 589,544. (No model.)

To all whom it may concern:

Be it known that I, EUGENE PRINGLE, a citizen of the United States, and a resident of Gloversville, county of Fulton, and State of New York, have invented certain new and useful Improvements in Studs for Separable Buttons, of which the following is a specification.

The objects of my invention are to improve the construction of the stud member of a separable button, and more especially to improve upon the manner of securing such studs to the material or fabric upon which they are to be used. I attain these objects by means of the construction and operation set forth in the drawings forming a part of this specification, and in which—

Figure 1 is a side view of my stud before it is secured to the material. Fig. 2 is a vertical central section through the stud as it appears when secured to comparatively thick material. Fig. 3 is a sectional view through the washer which I use in connection with my stud. Fig. 4 is a plan view of the same. Fig. 5 is a side view of the stud attached to comparatively thin material, with parts thereof in section and the setting-tool shown in dotted lines. Fig. 6 is a sectional view of the stud before it is attached to the material.

One of the special advantages of my present invention resides in the fact that it may be secured to material or fabric of varying thickness and that the projecting or engaging end of the stud will remain the same length under these different conditions. I attain this important advantage by use of a stud A, having a base-flange *d*, a shoulder *b*, and a hollow securing-section *c*, which is larger in diameter than the post and head portion above the shoulder, and which occupies the space between said base-flange and shoulder.

The stud may be hollow or solid above the shoulder *b*, as desired, but the securing-section *c* must in all cases be hollow and of comparatively thin material, so that when secured to the fabric this part of the stud will be crinkled or folded upon itself.

In attaching the stud it is passed through a perforation in the material from the under side, with its base-flange bearing snugly against the fabric and resting upon a suitable support, when a washer, as *g*, is placed over the head and down onto the shoulder, where it

rests until the setting-tool, as shown in dotted lines in Fig. 5, comes down in position over the stud. This setting-tool is provided with an opening which nicely fits the stud above the shoulder *b*, and when pressure is exerted upon the tool and the support the washer will be crowded down over the securing-section and down upon the surface of the material. This pressure being continued, the securing-section of the stud will be crinkled or folded more or less, according to the thickness of the material to which the stud is being attached, between the base-flange and the washer, and at the same time a bead or crinkle *e* is formed in said securing-section upon the upper side of the washer, thus firmly securing the stud to the fabric and leaving the engaging portion of the stud above the material of unaltered length.

I prefer to use a washer having a slight depression or cavity surrounding the central aperture to receive the bead or fold *e*. However, a plain washer may be used.

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

1. A stud for separable buttons having an engaging groove, a shoulder below it, an enlarged hollow securing-section below the shoulder, and a base-flange, said stud secured to the material by pressure to crinkle or fold the securing-section between the shoulder and the base-flange, and forming a bead or fold above a washer upon the surface of the fabric, all without altering the length of the engaging end of the stud, as set forth.

2. A stud for separable buttons having an engaging groove, an enlarged hollow securing-section below said groove, a base-flange below said section, a washer encircling the securing-section, said section being crinkled or folded upon itself and upon the washer, thus firmly clamping the stud to the material.

3. A stud having an enlarged hollow securing-section, a base-flange below said section, a washer encircling said section, and the latter crinkled or folded upon the washer, thereby securing the stud to the material, substantially as described.

EUGENE PRINGLE.

Witnesses:

JEROME EGELSTON,
JENNIE CHEVALIER.