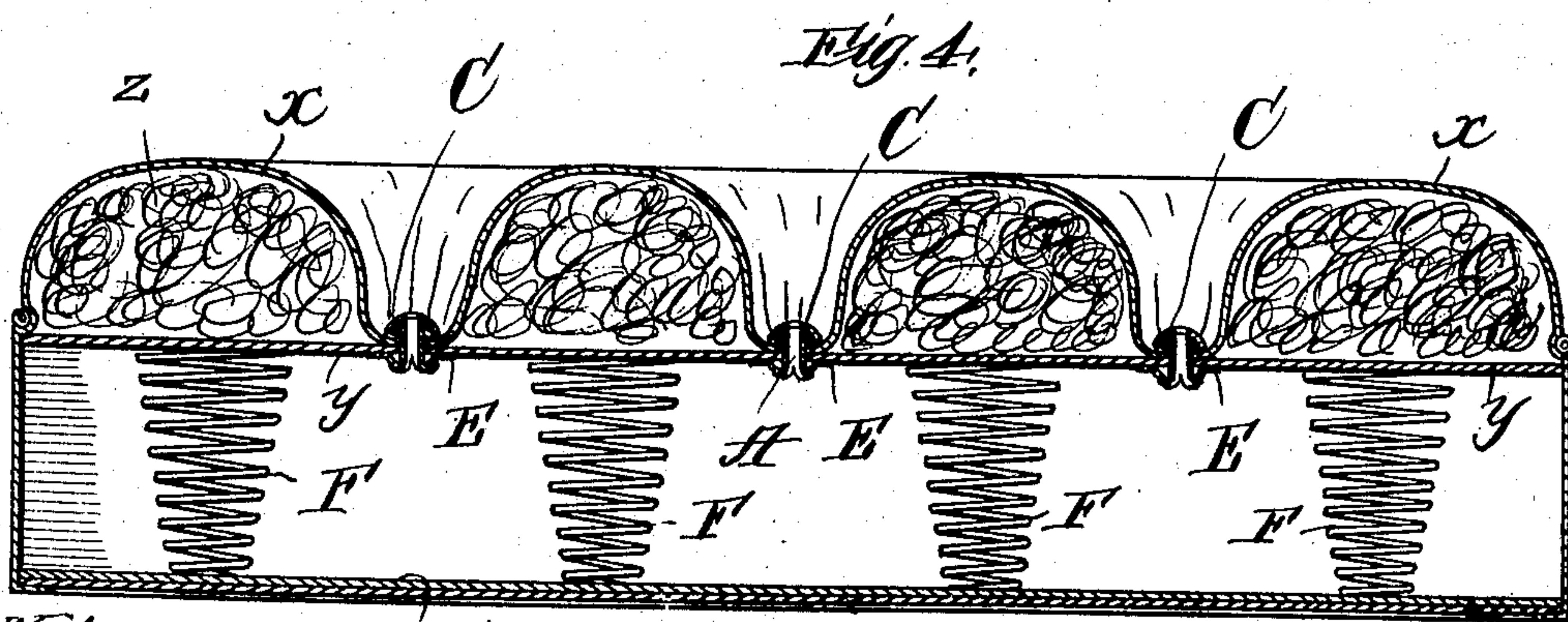
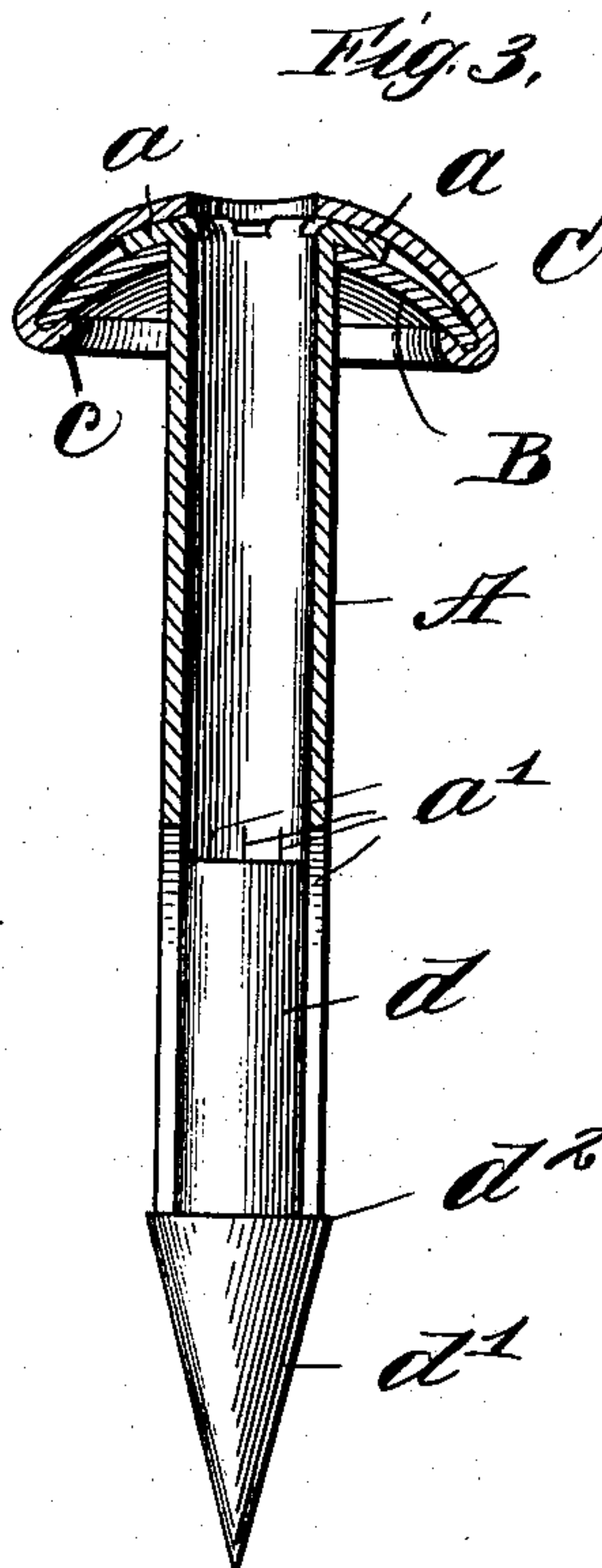
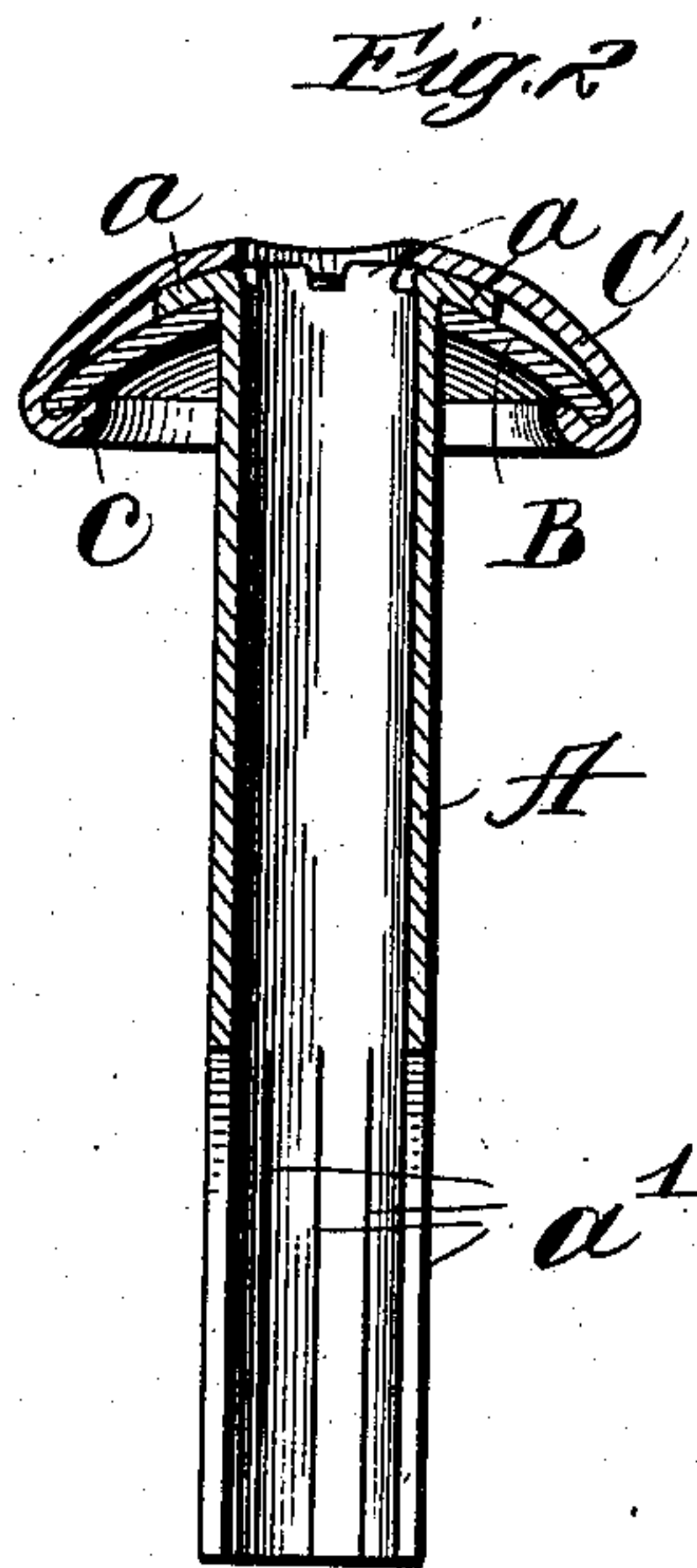
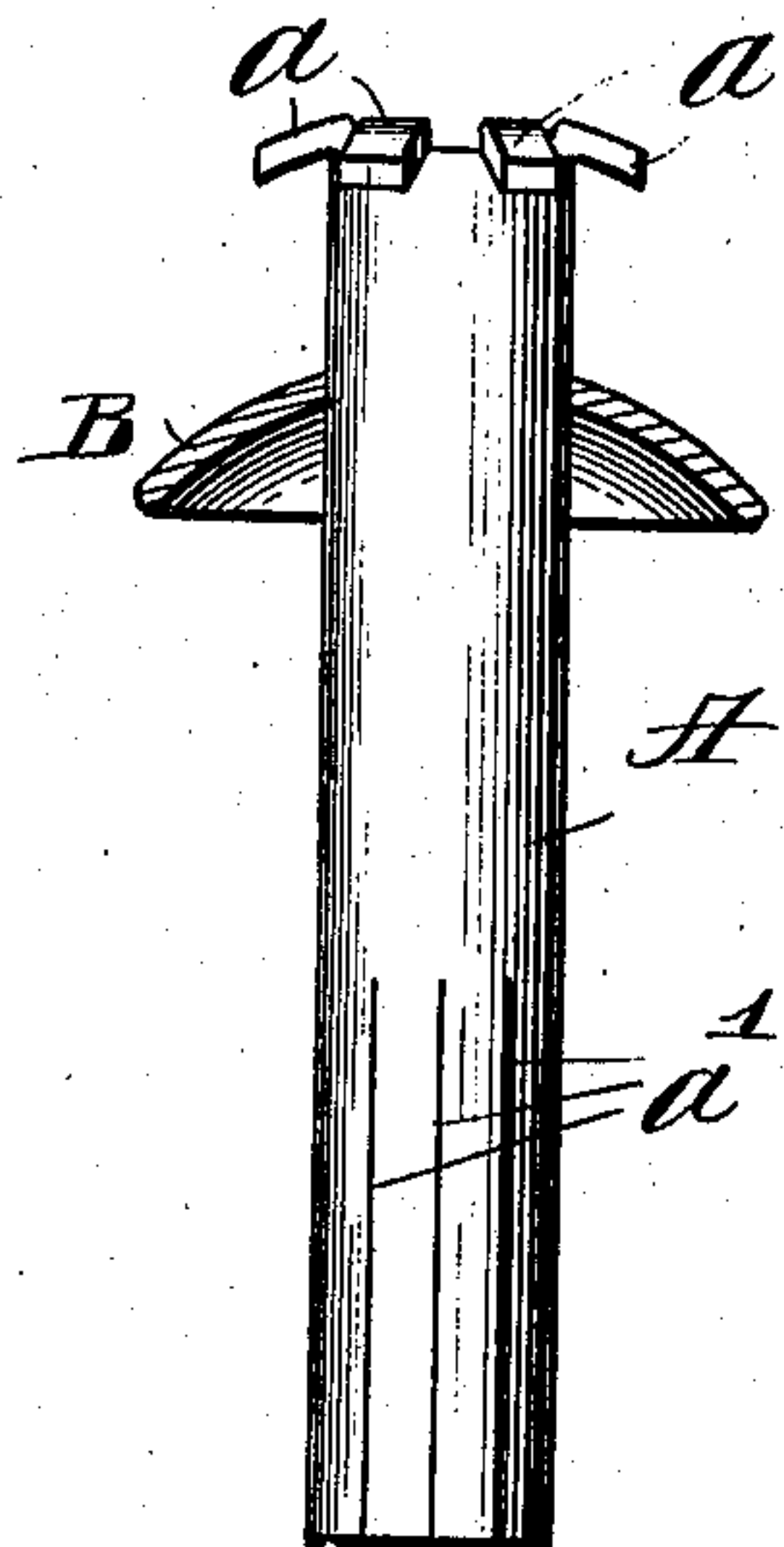


H. L. E. KRUEGER.  
 UPHOLSTERER'S BUTTON.  
 APPLICATION FILED APR. 15, 1907.

899,601.

Patented Sept. 29, 1908.



Witnesses: f¹  
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 his Atty



# UNITED STATES PATENT OFFICE.

HENRY L. E. KRUEGER, OF CHICAGO, ILLINOIS, ASSIGNOR TO TUFTING MACHINE SUPPLY COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

## UPHOLSTERER'S BUTTON.

No. 899,601.

Specification of Letters Patent.

Patented Sept. 29, 1908.

Application filed April 15, 1907. Serial No. 368,145.

*To all whom it may concern:*

Be it known that I, HENRY L. E. KRUEGER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Upholsterers' Buttons, of which the following is a specification, reference being had therein to the accompanying drawing.

10 My invention relates to upholsterers' buttons for use in the production of upholstery, such as cushions, etc., and the primary object of the invention is to provide a button which shall allow the free passage and circulation of air through the cushion.

15 Another object is to provide an upholsterer's button and piercing-pin adapted to be used in connection therewith.

I accomplish the objects of the invention 20 in the manner illustrated in the accompanying drawings, wherein similar letters of reference refer to and indicate like parts throughout the several views.

25 The invention consists in the matters hereinafter set forth and more particularly pointed out in the appended claims.

In the drawings—Figure 1 is a longitudinal central sectional view of the parts composing my new button, the several parts being somewhat separated along their axial line for convenience of illustration; Fig. 2 is a similar view with the parts of the head in assembled condition or relation; Fig. 3 is a sectional view of the button provided with a 35 piercing tool seated in the lower end of the tubular shank, and Fig. 4 is a sectional view of a completed cushion provided with my new buttons.

40 In carrying out my invention I employ a hollow tubular or cylindrical shank A of suitable shape and size and formed of sheet metal. The shank is provided at one end with an annular flange a, of one or a plurality of pieces, and a cap-seat B formed usually of a metallic disk is provided with a central perforation adapted to pass over the shank so that the cap-seat may be brought against the lower face of the flange a as shown in Fig. 2.

50 A cap C, preferably formed of metal in the shape of a disk corresponding in general contour with the disk, is adapted to be seated upon the cap-seat B and secured thereto in any suitable manner. In the form shown the cap C is of slightly greater diameter than

the cap-seat B, and its edge is spun in around the perimeter of the cap-seat, as clearly shown at c in Fig. 2. The flange a of the shank is thus clamped between the cap and cap-seat, and all these parts are securely 60 connected together in unitary or integral form comprising a finished button. The cap is provided with a central perforation which registers with the bore of the tubular shank, so that the completed button is provided 65 with an air passage from end to end.

When the buttons are used to connect the cover material x with the backing material y of the cushion, the heads are seated in the usual button-holders of a suitable mold- 70 board (not shown) with their tubular shanks projecting upwardly, and a suitable piercing-pin is seated in the free end of each shank as shown in Fig. 3. This pin is composed of a solid cylindrical body d, a tapered or pointed 75 pin d' and an intermediate flange d<sup>2</sup>, the body being of slightly less size than the diameter of the tubular shank and adapted to seat therein with the flange d<sup>2</sup> resting on the free end thereof, as shown in Fig. 3. The 80 cover material x is then passed over the pins and shanks with its face downward and in sufficient fullness to provide the usual tufts, the filling material z is then spread over the cover, and the backing y is then passed over 85 the pins and shanks and pressed into place. Washers E are passed over the shanks when the pins are removed, and the shanks are headed over to clench against the washers and hold the parts in place, the shanks being 90 split or slitted as shown at a' to provide flexible prongs to be spread apart for this purpose. The pins pierce the cover and backing at the predetermined points so that these materials may be quickly and easily placed 95 in position in the mold without the necessity of first being separately perforated. The pads or covers thus formed may be mounted upon associated springwork in any suitable manner, and the buttons provide for the free 100 circulation of air to insure ventilation. In Fig. 4 the pad so formed is mounted upon an associated springwork comprising springs F carried by a base-board f', the edges or margins of the cover x being secured to the 105 base. When the cushion thus formed is used the air within this inclosed space finds a ready channel of escape through the hollow buttons when the cushion is depressed by the weight of an occupant. This venti- 110



lating effect of the buttons further prevents the cushion from becoming uncomfortably warm when in use. When the bottom of the cushion is open, as when wire-supports are used in place of the base-board, it is generally supported upon a seat or base, as for example in an automobile seat, which closes the open lower portion, and the buttons afford complete ventilation and circulation of air. The perforation in the head may correspond in size and outline with the bore of the shank or may be smaller if desired, it being obvious that it will register with the bore in either case.

What I claim as new and desire to secure by Letters Patent is—

As a new article of manufacture, a unitary

upholsterer's button comprising a hollow shank having a flange, a cap-seat on the shank and contacting with the flange, a cap adapted to overlie the flange and to interlock with the cap-seat, the latter and cap having each a perforation registering with the opening through the shank, flexible prongs integral with the shank at its lower end and adapted to pass through the cover and backing of pads or cushions and to be spread apart.

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

HENRY L. E. KRUEGER.

Witnesses:

ROY C. MANSON,  
J. McROBERTS.