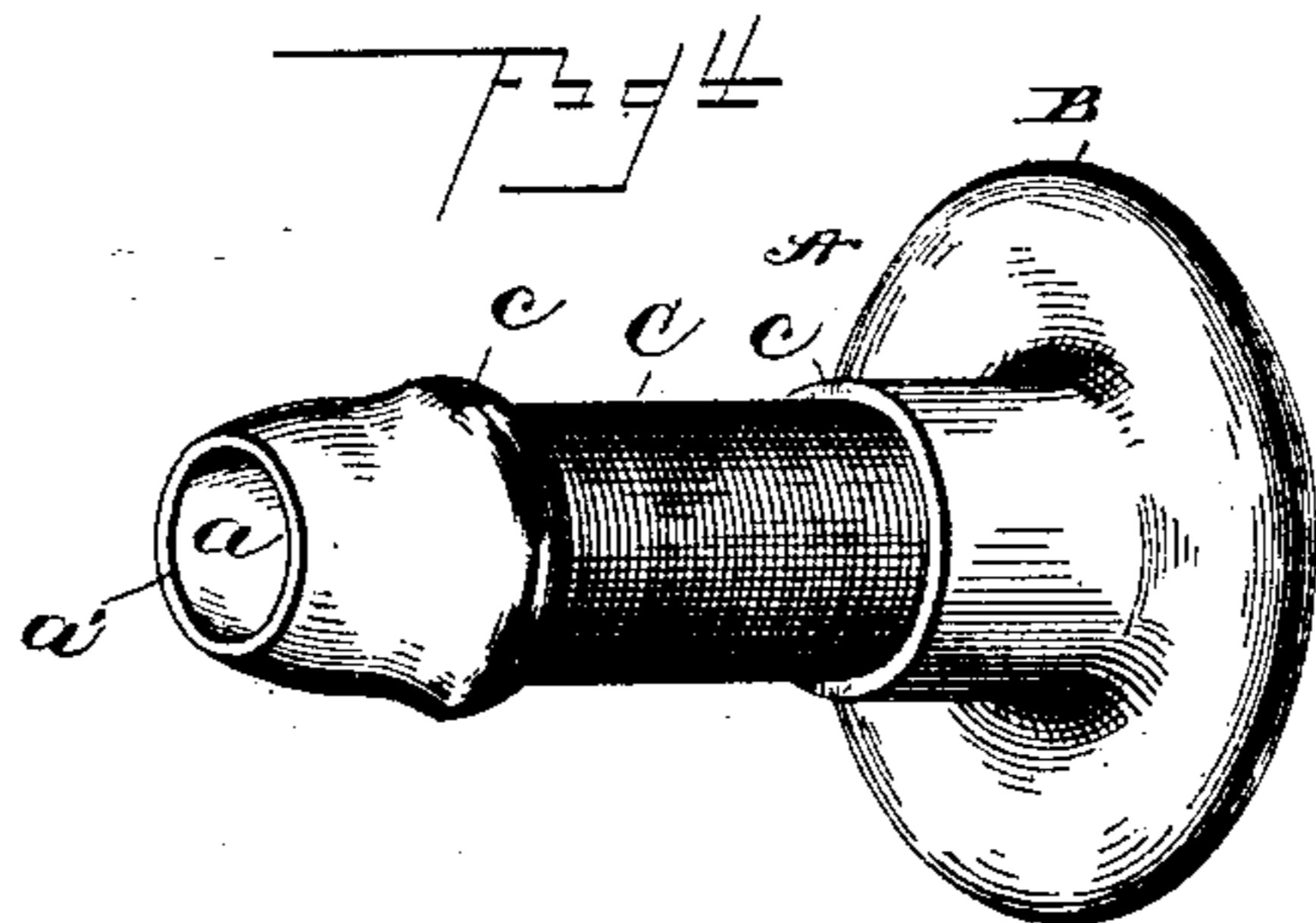
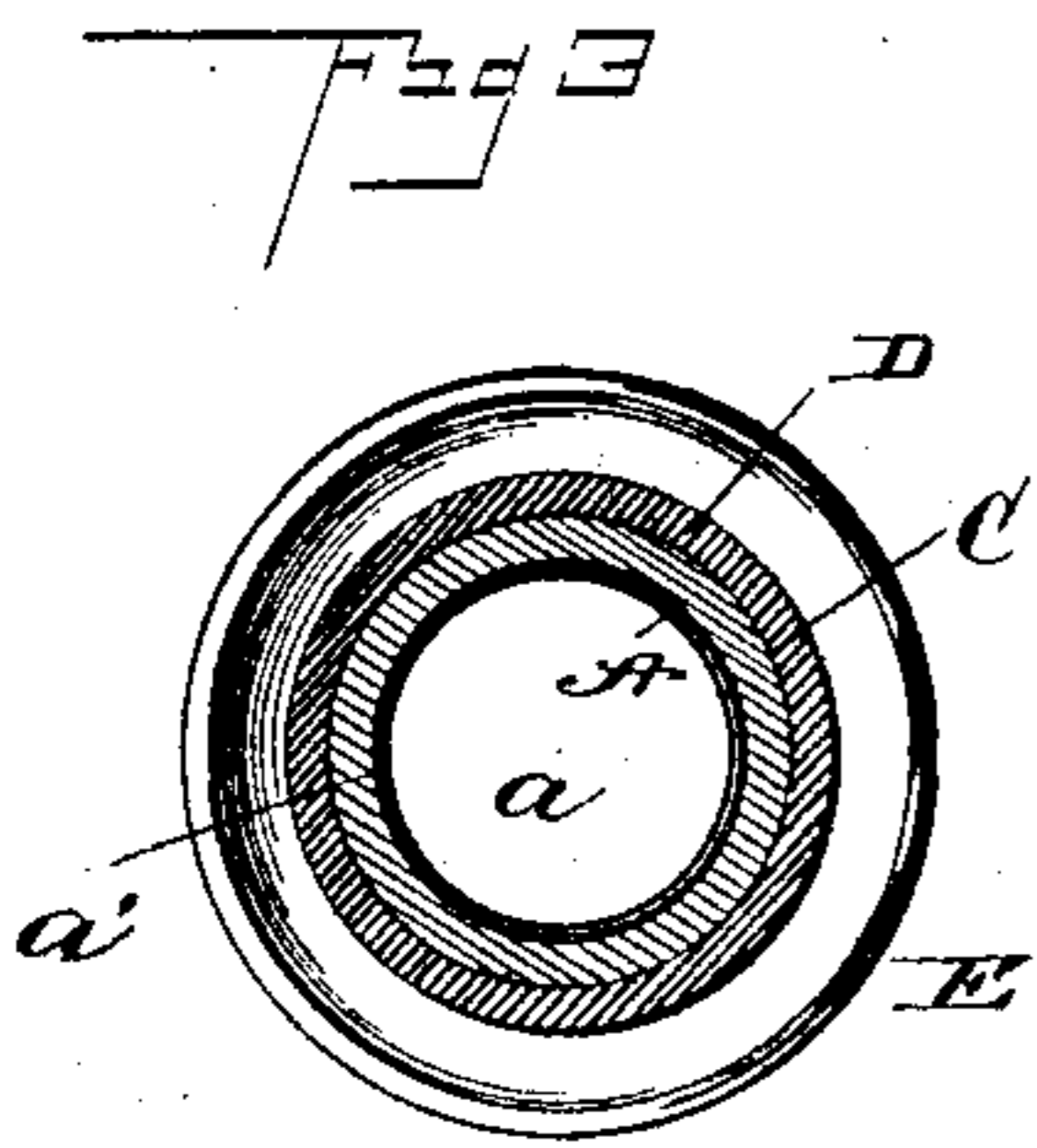
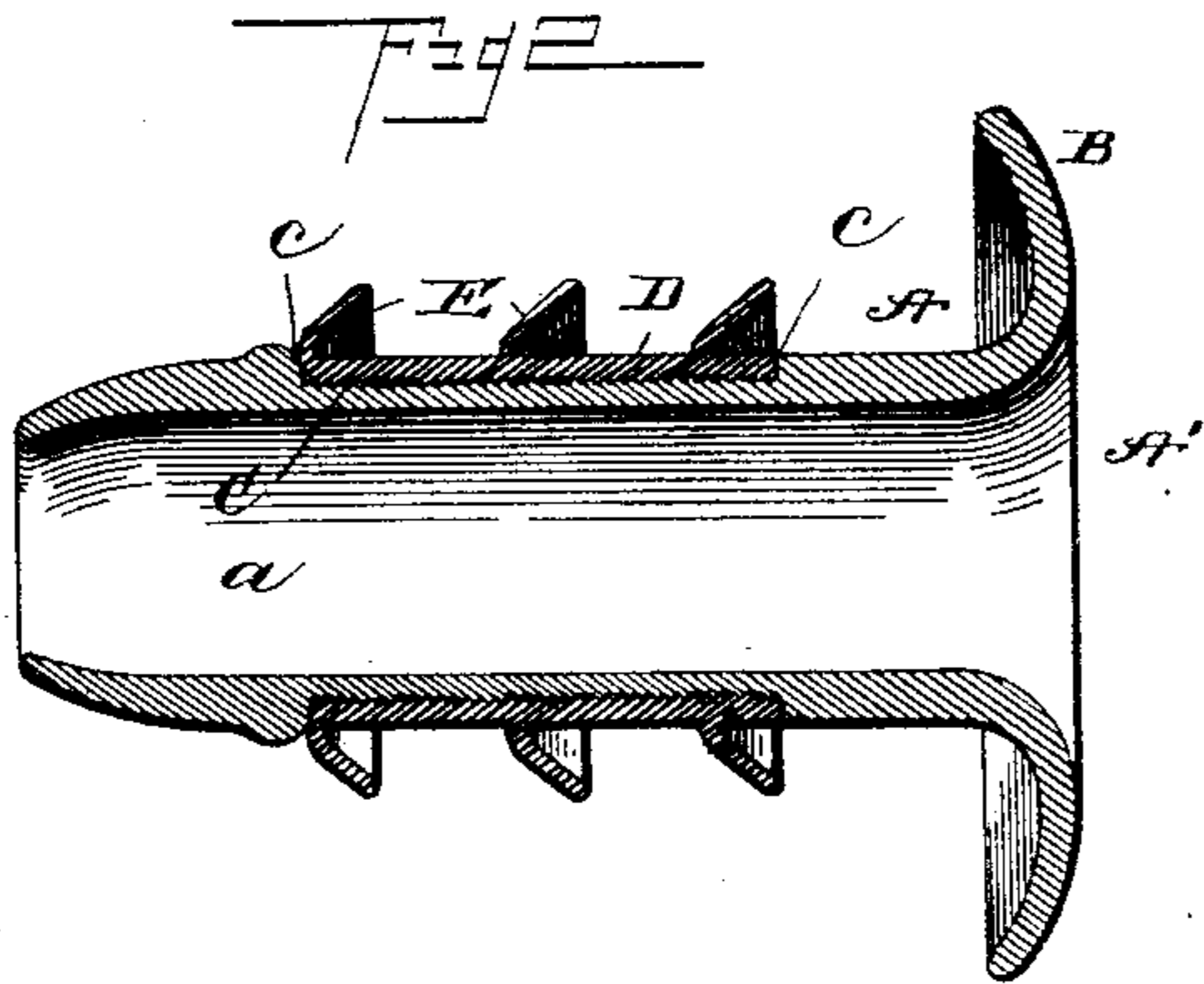
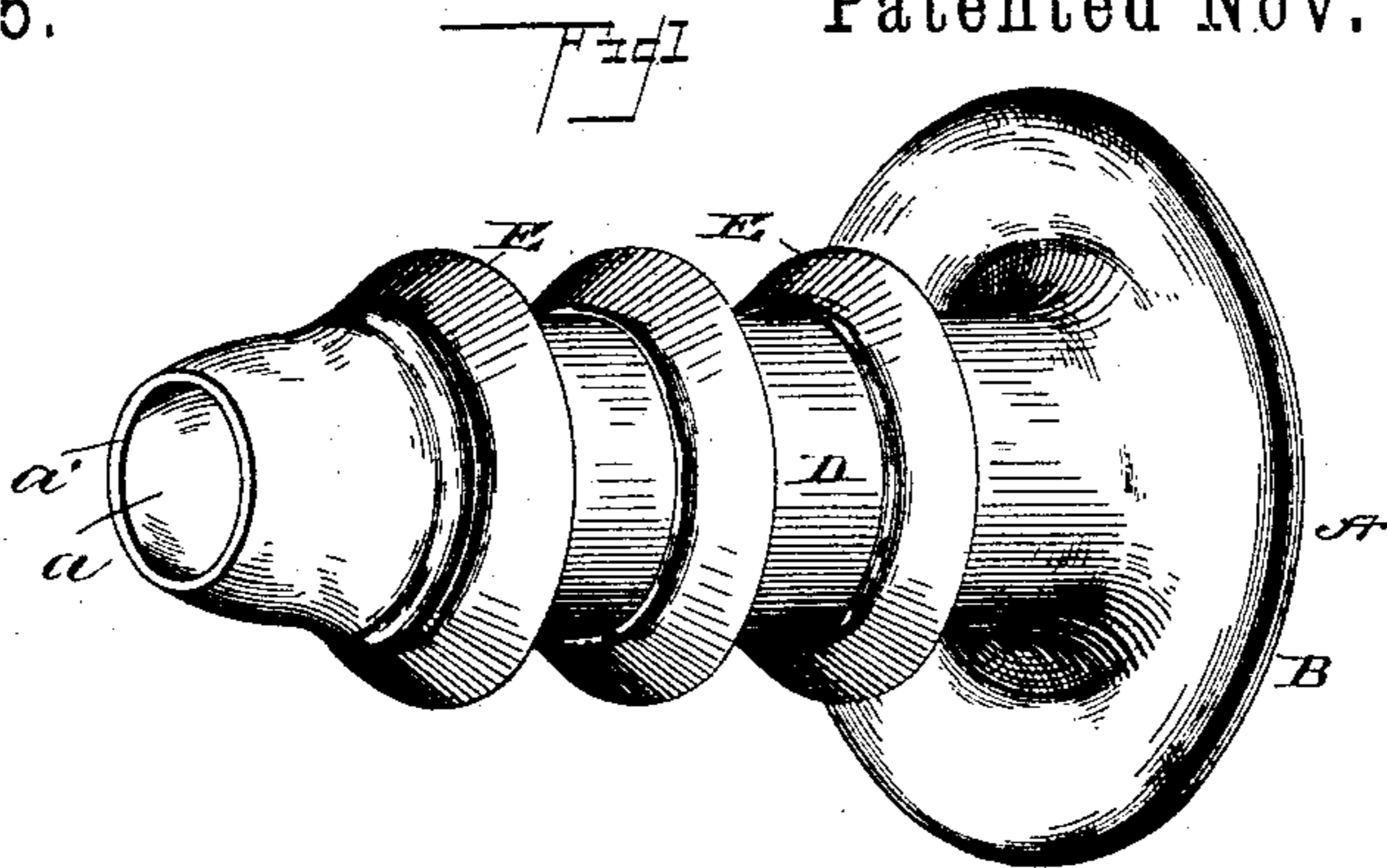


(No Model.)

S. C. MEDDICK.
VETERINARY INSTRUMENT.

No. 462,385.

Patented Nov. 3, 1891.



Witnesses

John Imrie
Wm. J. Lister

Inventor

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By his Attorney
J. R. Littell

UNITED STATES PATENT OFFICE.

SANDFORD C. MEDDICK, OF OVID, NEW YORK.

VETERINARY INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 462,385, dated November 3, 1891.

Application filed November 6, 1890. Serial No. 370,456. (No model.)

To all whom it may concern:

Be it known that I, SANDFORD C. MEDDICK, a citizen of the United States, residing at Ovid, in the county of Seneca and State of New York, have invented certain new and useful Improvements in Veterinary Instruments; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a veterinary instrument for aiding conception in mares, and is designed as an improvement upon my instrument for which Letters Patent were granted me the 17th day of June, 1890, No. 430,137.

The object of the present invention is to provide a device of this character in which the two separate parts, as shown and described in the above-mentioned patent, are so combined as to produce a single and entire instrument in the one device, whereby its construction and application are materially simplified and the cost of manufacture reduced to a minimum.

In the drawings, Figure 1 is a perspective view of a veterinary instrument embodying my invention. Fig. 2 is a longitudinal sectional view thereof. Fig. 3 is a vertical sectional view of the same. Fig. 4 is a perspective view of the inflexible tube with the flexible sleeve removed.

Corresponding parts in the figures are denoted by the same letters of reference.

Referring to the drawings, A designates a funnel formed of hard rubber or other inflexible material and has its opening or channel *a* preferably flaring toward its mouth *A'*. At the latter point the funnel is provided with an annular flange B, which is curved forwardly from the mouth and rearwardly at the periphery of said flange, as shown. The rear end *a'* of the funnel is contracted and rounded upon its exterior surface to facilitate the insertion of the instrument into place.

Between the rear rounded end *a'* of the funnel and the mouth of the latter the said funnel is contracted in diameter, as shown at C, forming shoulders *c c* at the termination of said contracted portion. Within this contracted portion and encircling the same is adapted to be disposed a sleeve D, formed of

flexible rubber or other flexible substance, and which abuts against the shoulders *c* and has its ends flush with the latter. This flexible sleeve is permanently secured to the funnel. To accomplish this end the portion of the latter encircled by the sleeve is serrated or corrugated, and, as the flexible rubber forming the sleeve is applied thereto in a soft or heated state during the course of manufacture, the inner surface of the sleeve will conform to said serrations or corrugations and when hard adhere thereto, thus insuring a firm adhesion of the flexible and inflexible parts of the instrument. It will be obvious, however, that this manner or method of securing the parts together is not essential, and the same may be secured by gluing or in any other suitable manner.

Upon the exterior surface of the sleeve D are provided annular transverse flanges or fins E, disposed parallel to each other and preferably at equidistant points upon the sleeve. These flanges or fins are constructed of the same material as the sleeve and are formed integral therewith or secured thereto in any suitable manner. From their secured edges the flanges or fins project obliquely outward and toward the mouth of the funnel.

The application and operation of the instrument will be obvious. The parts of the device being permanently combined together, the entire instrument is applied with but a single operation, and while performing its office all liability of the said parts becoming dislodged or separated is effectually averted.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. As an improved article of manufacture, an inflexible rubber tube formed at one end with a flaring mouth and contracted at the opposite end, said tube being reduced upon its exterior intermediate ends and having a flexible rubber tube fitting within the reduced portion and provided with oblique flanges, substantially as and for the purposes described.

2. As an improved article of manufacture, a veterinary instrument for the purpose described, consisting of a hard-rubber funnel formed with an outwardly-projecting annular flange at its mouth and with a contracted and

rounded end opposite the mouth, a portion of
the intervening space between said mouth
and rounded end being contracted and its sur-
face serrated or corrugated, a soft-rubber
5 sleeve or covering corresponding and applied
to said contracted portion and binding in the
serrations or corrugations to retain the sleeve
permanently in place, the periphery of said
sleeve being flush with the adjacent portions

of the funnel, and the oblique annular flanges 10
or fins projecting from the sleeve, substan-
tially as and for the purpose set forth.

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

SANFORD C. MEDDICK.

Witnesses:

J. D. THOMAS,

ALFRED B. HAND.