

(No Model.)

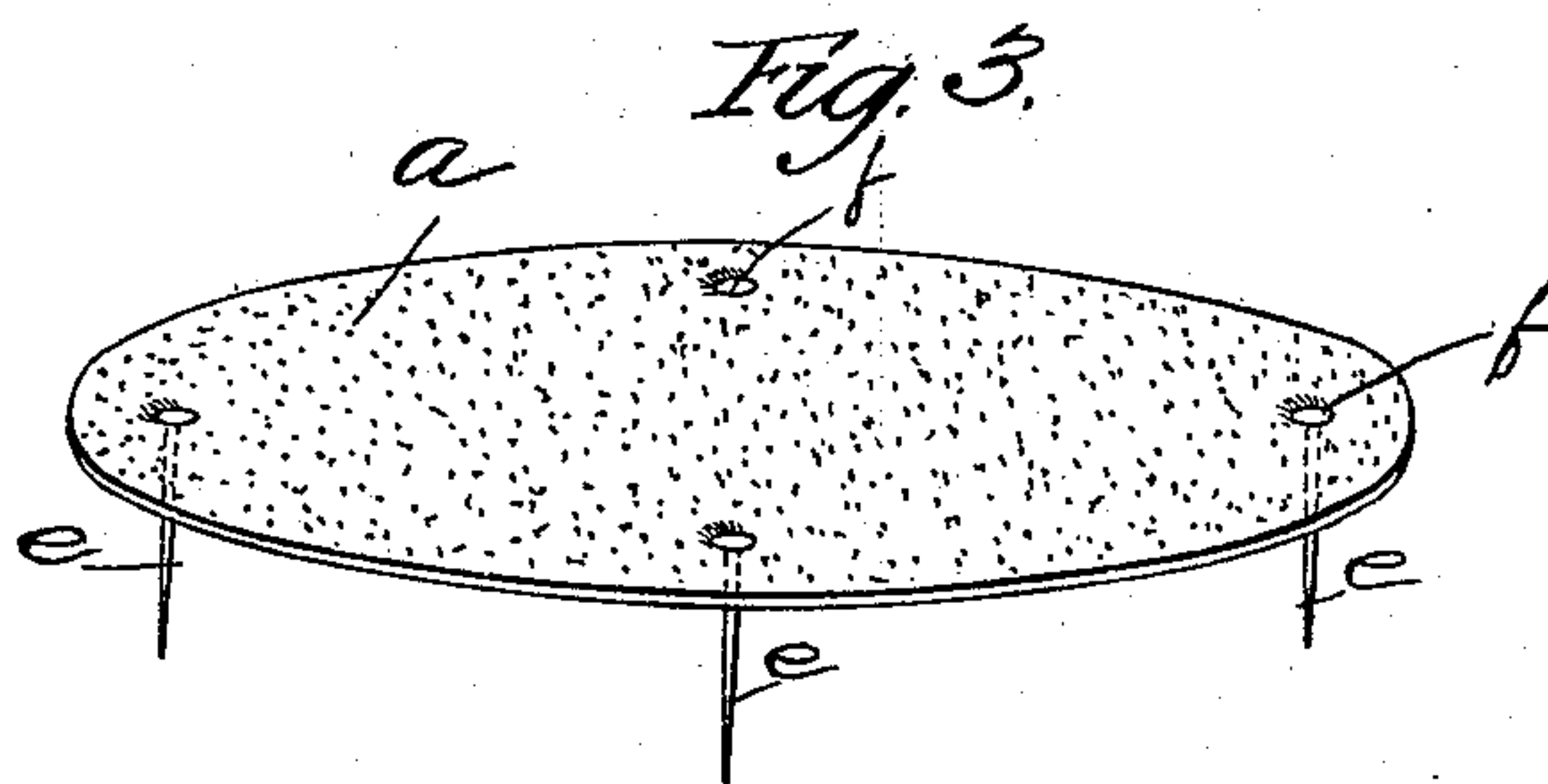
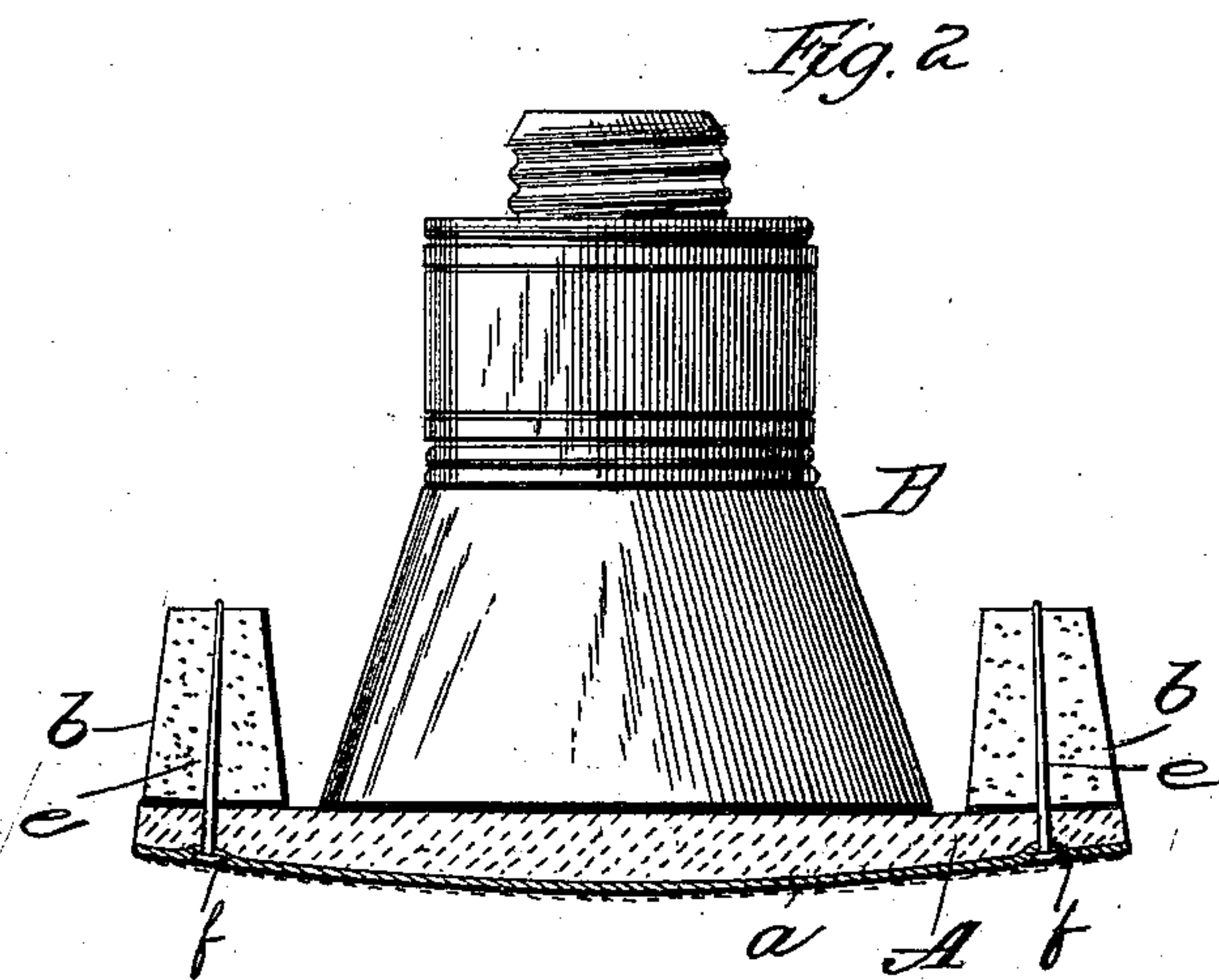
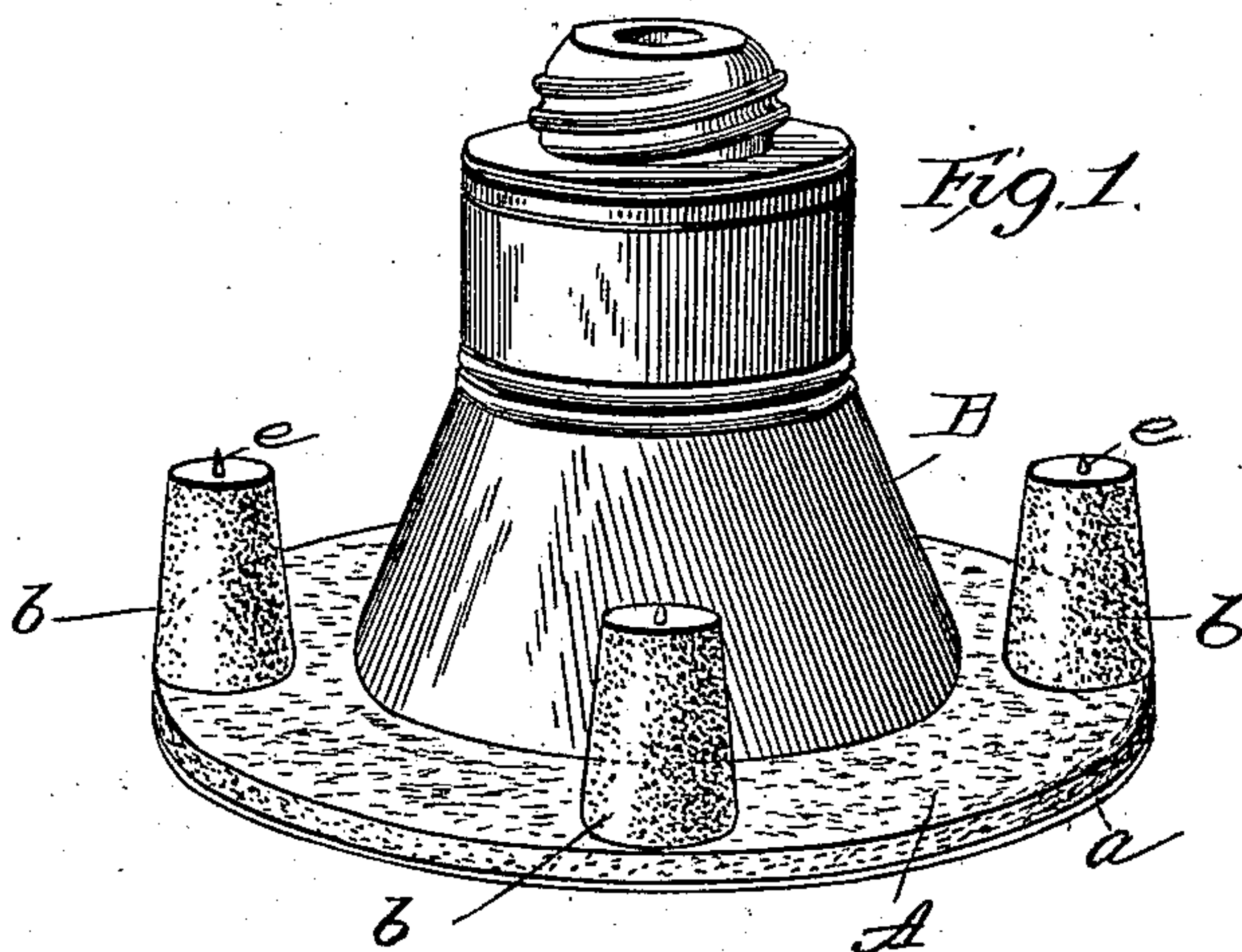
F. WINSLOW, Dec'd.

S. W. & F. H. WINSLOW, Administrators.

BUFFER.

No. 407,270.

Patented July 16, 1889.



Attest
Walter C. Keene
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UNITED STATES PATENT OFFICE.

SIDNEY W. WINSLOW AND FREEMAN H. WINSLOW, OF BEVERLY, MASSACHUSETTS, ADMINISTRATORS OF FREEMAN WINSLOW, DECEASED, ASSIGNORS TO SIDNEY W. WINSLOW, TRUSTEE, OF SAME PLACE.

BUFFER.

SPECIFICATION forming part of Letters Patent No. 407,270, dated July 16, 1889.

Application filed December 7, 1888. Serial No. 292,932. (No model.)

To all whom it may concern:

Be it known that FREEMAN WINSLOW, of Beverly, in the county of Essex and State of Massachusetts, did invent a new and useful
5 Improvement in Buffers; and we, SIDNEY W. WINSLOW and FREEMAN H. WINSLOW, his administrators, do hereby declare that the following is a full, clear, and exact description of the same.

10 The invention hereinafter described of the said FREEMAN WINSLOW relates to buffers for finishing the soles of boots or shoes. Prior to his said invention the abrading-coverings for the working-face of such buffers
15 had been held by a central bolt, the head of which was countersunk into a cavity in the covering formed in the molding of the covering. This central fastening afforded an insecure holder for the covering against the
20 tendency to turn on the foot in the rotation of the buffer, with the abrading-face against the sole. It also required a larger countersink for the bolt-head by reason of the location of it, which materially interrupted and
25 diminished the abrading-surface; also, prior to said invention buffers for soles of boots or shoes had been furnished with an abrading-covering in the form of a pouch, which, while affording a better hold and having ad-
30 vantages in some other respects, presented an imperfect edge, and was liable to abrade the breast of the heel, and in addition to this was more expensive.

The object of the said invention of the afore-
35 said FREEMAN WINSLOW was to avoid the specified defects in the existing coverings and was designed to secure economy in the manufacture, which was of great moment, by reason of the large number of these coverings
40 used. It was also designed to be readily applied and removed, to present a clear edge adapted to work up close to the breast of the heel, and as well on all parts of the sole, and especially to be held securely against turn-
45 ing on the foot.

The particular manner in which the general principles of the invention of the said WINSLOW have been embodied is shown in the accompanying drawings, in which—

Figure 1 shows in perspective the foot and 50 its covering and the connections so far as they may be shown in such a view. Fig. 2 shows a transverse vertical section of the same, parts being in side elevation. Fig. 3 represents in perspective the covering de- 55 tached from the foot.

In the drawings the abrading-covering is shown at *a*. It is formed of sand-paper, emery-cloth, or similar material, such as was well known at the date of this invention, and is 60 either in itself or by reason of a re-enforcement on its back of sufficient strength and stiffness for the purpose. It is formed, preferably, by molding in a suitable die into a concavo-convex form fitted to the ordinary con- 65 vex foot. The covering is of the ordinary circular form, and the edge left in cutting is clear of abrading material, and is adapted to work up close to the breast of the heel without abrading the breast thereof. The foot A 70 is also of the ordinary circular form, that being preferred both for the covering and the foot. It is made of felt or any equivalent thereof, and is secured by glue, or in any suitable way, to the base of the spindle B. The buffing-in- 75 strument when complete for working requires in use that this covering be held against turning on the foot, and for the best effect that the edge of the abrading-cover be clear of all abrading material and unobstructed 80 by any devices for connecting it to the foot, and with these conditions the further condition that it shall be capable of easy attachment and detachment, so that the covering may be conveniently replaced when worn. 85 All these conditions are secured in connection with the detachable covering above described by the intermediately-set attaching devices represented by the pins or their equivalents, now to be described. The pins which 90 represent these attaching devices are shown at *e*. They are shown as attached to the covering by passing them through the same and sinking the head or holding part into the covering, so that it will not mar the surface of 95 the sole. They are of such a nature as to pass readily through the felt foot or through holes in said foot, and for securing these in

place they require some form of attachment.

Where the pin is passed through from the outside of the covering, as shown, a simple and convenient form of detachable holding device consists of a piece of cork *b*, or equivalent material, which may be pressed down over the point of the pin and adheres sufficiently for the purpose, but may be easily removed when the worn covering is to be detached. These attaching devices are set at intervals about the covering between the center and the margin, but not at the margin, and therefore do not interfere with the action of the buffer when working near the breast of the heel. At the same time, being near the margin or away from the center, they have greater leverage and hold the covering against turning when the buffer is rotating on the sole.

The covering is formed, preferably, by molding out of sand-paper or emery-cloth, with or without re-enforcement, and while moist receives its form, and is made, preferably, with indentations or countersinks *f* on the surface for the heads of the attaching projections during the process of molding. The covering so molded fits the foot snugly and is held securely, its edge is left clear and unobstructed and will not abrade the breast of the heel, and it is readily attached to the foot or detached therefrom. A material advantage not heretofore mentioned arises from the intermediate location of the attaching devices.

In the buffer having the central bolt a very large head and corresponding countersink are required to give any suitable frictional hold. With the intermediate arrangement of the attaching devices very slender and small devices may be used, and correspondingly small countersinks, so that the working-surface is almost continuous. The coverings thus molded are sold as articles of manufacture and are ready for attachment to buffers without further preparation.

While we have described only a single form

of connection between the covering and the foot, we wish it understood that we do not limit ourselves to this particular form, the special arrangement described between the center and the margin of the covering being the essential feature of the invention.

We claim as the invention of the said FREEMAN WINSLOW—

1. An abrading-covering for boot or shoe buffers, the same consisting of a disk composed of a sheet of thin flexible material having an abrading-surface and a non-abrading edge, combined with connections for holding it to the foot, and the foot attached by said connections to the covering between the center and margin thereof, substantially as and for the purpose set forth.

2. As an article of manufacture, an abrading-covering for boot or shoe buffers, consisting of a disk composed of a sheet of thin flexible material having an abrading-surface and a non-abrading edge, attaching-connections, and countersinks between the center and margin of said covering adapted to receive the attaching-connections to hold it to the foot, substantially as described.

3. An abrading-covering for boot or shoe buffers, consisting of a disk composed of a sheet of thin flexible material molded with countersinks at intervals on its working-surface between the center and the margin, combined with a foot and connecting devices inserted through the countersinks in said covering and through the foot, substantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

SIDNEY W. WINSLOW,

FREEMAN H. WINSLOW,

Administrators of said Freeman Winslow.

Witnesses:

C. B. TUTTLE,

ANDREW W. ROGERS.