

No. 753,612.

PATENTED MAR. 1, 1904.

G. W. MCGILL.

COMBINED BUTTON AND BUTTON FASTENING.

APPLICATION FILED OCT. 15, 1903.

NO MODEL.

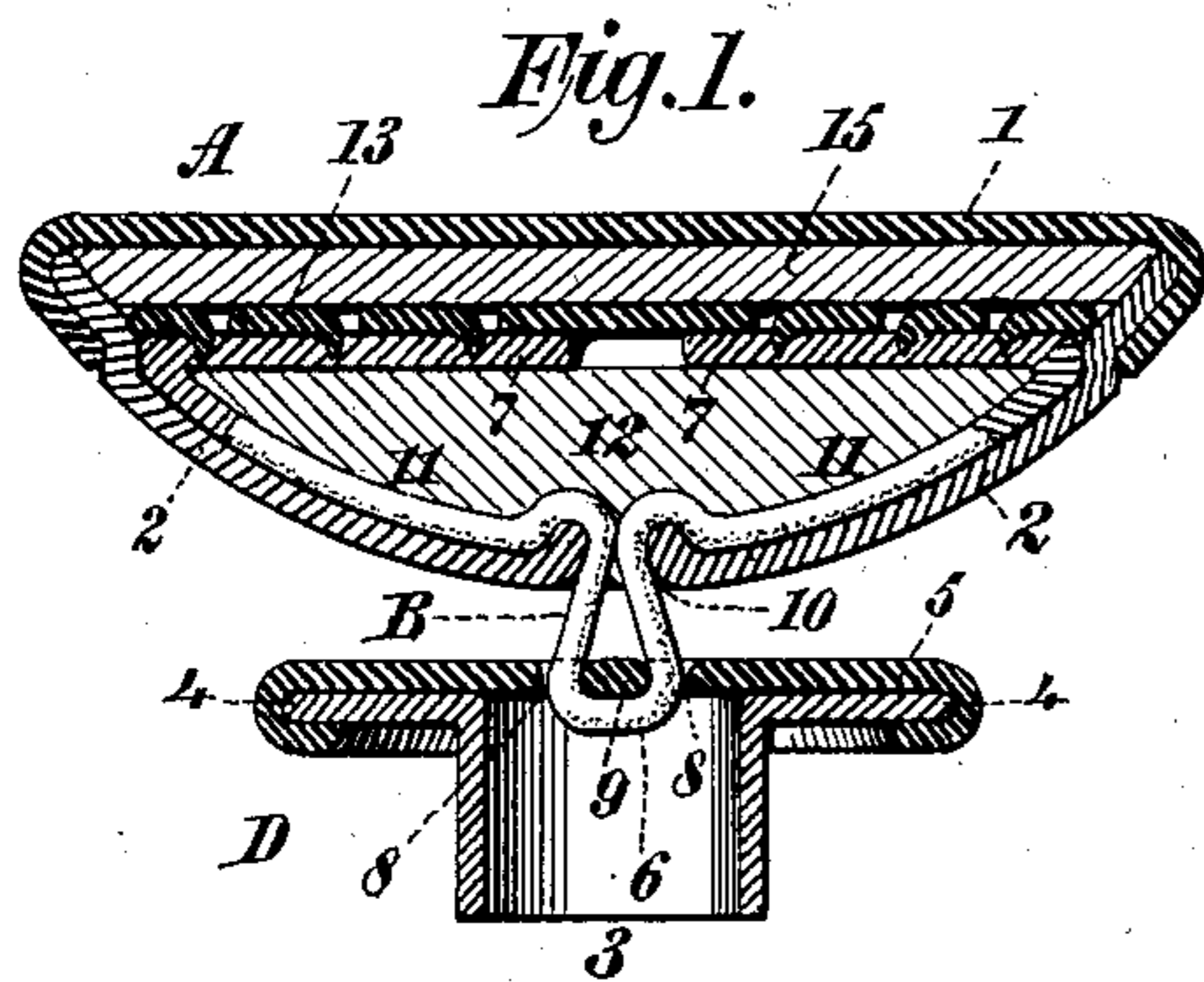


Fig. 2.



Fig. 3.

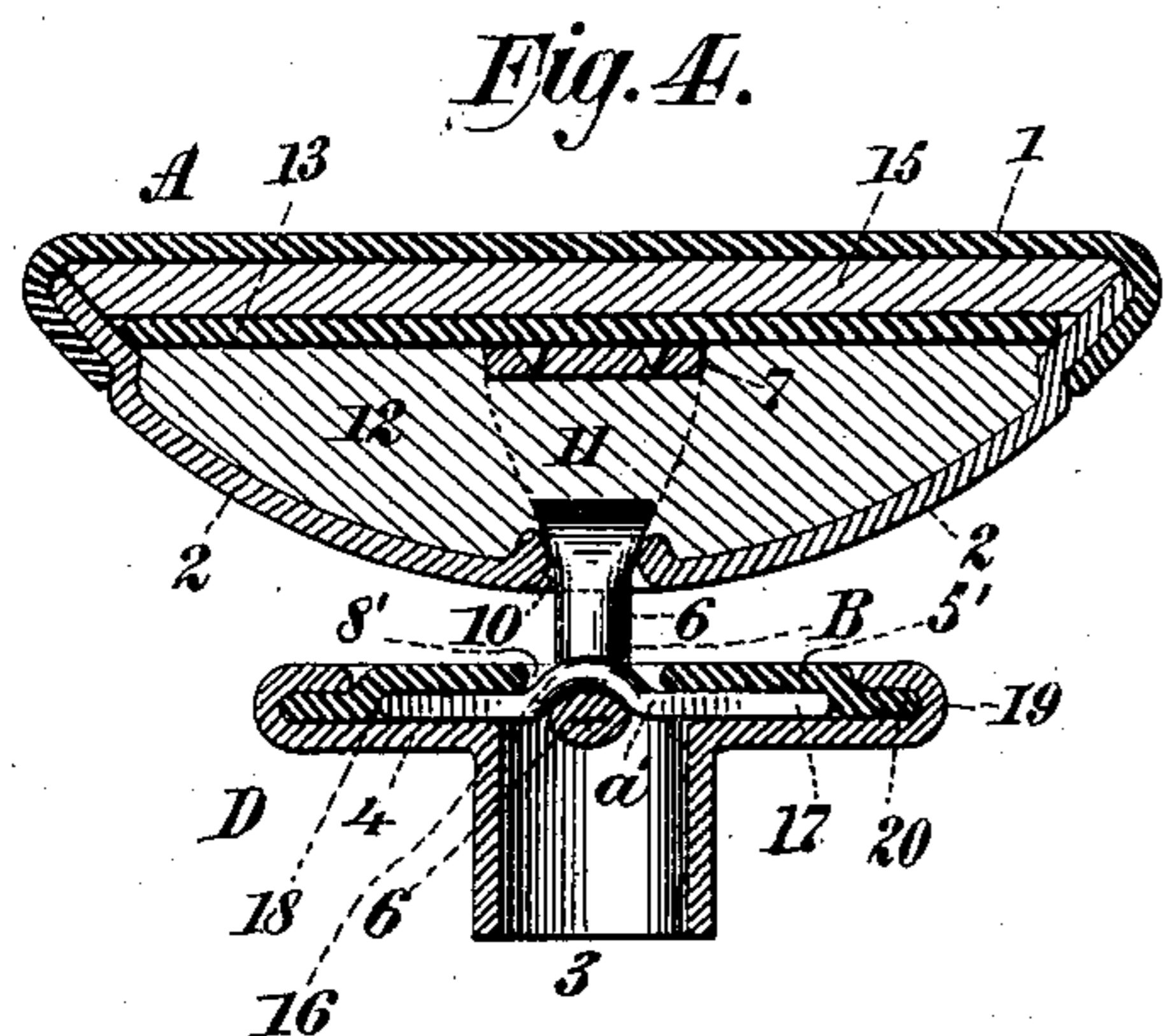
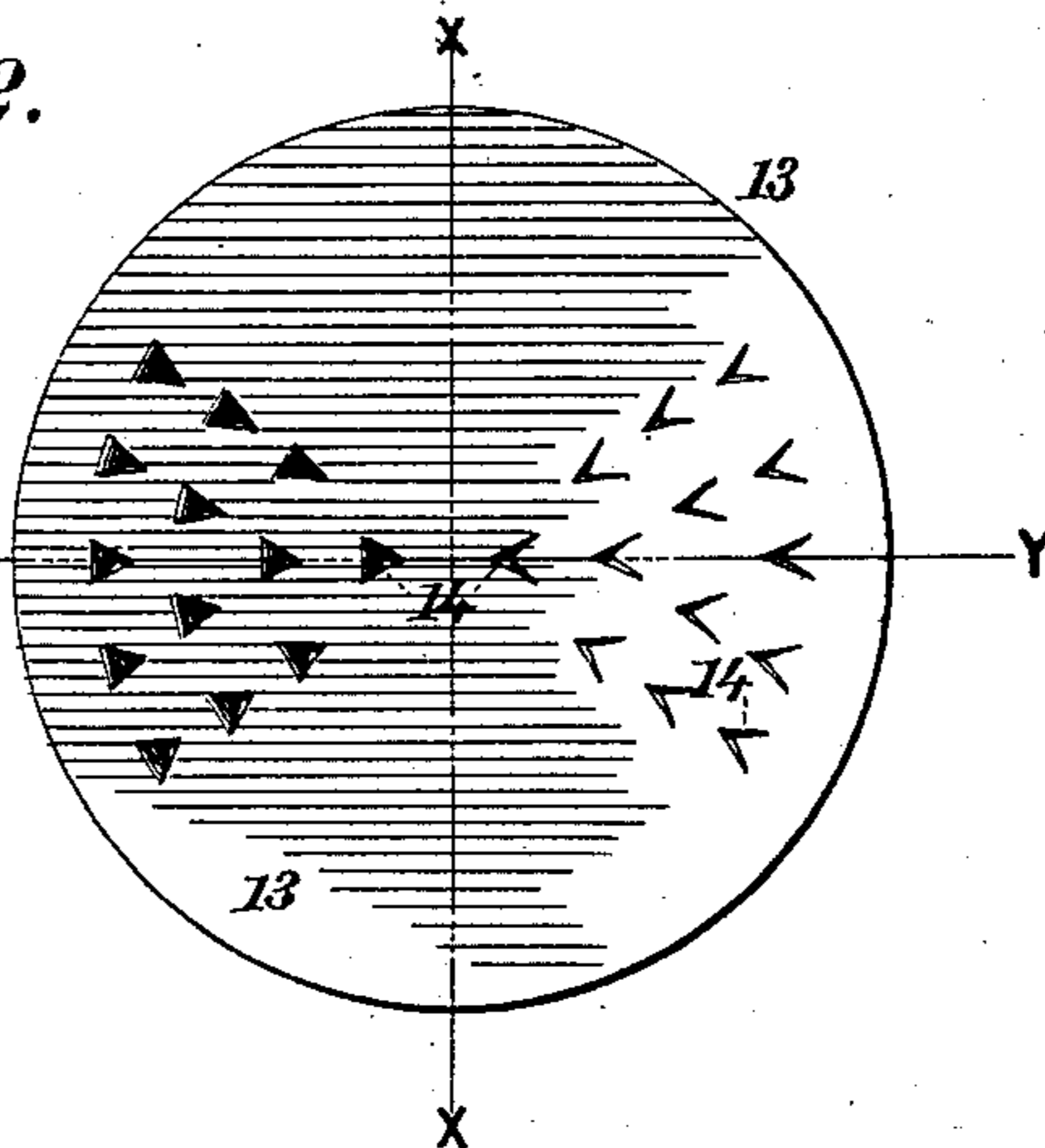


Fig. 9.

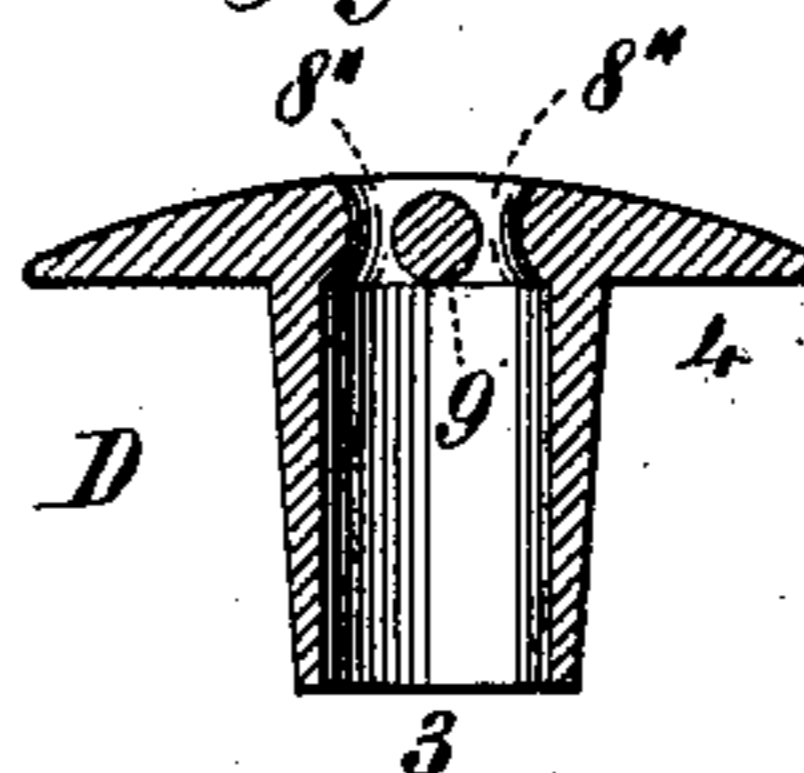


Fig. 5.

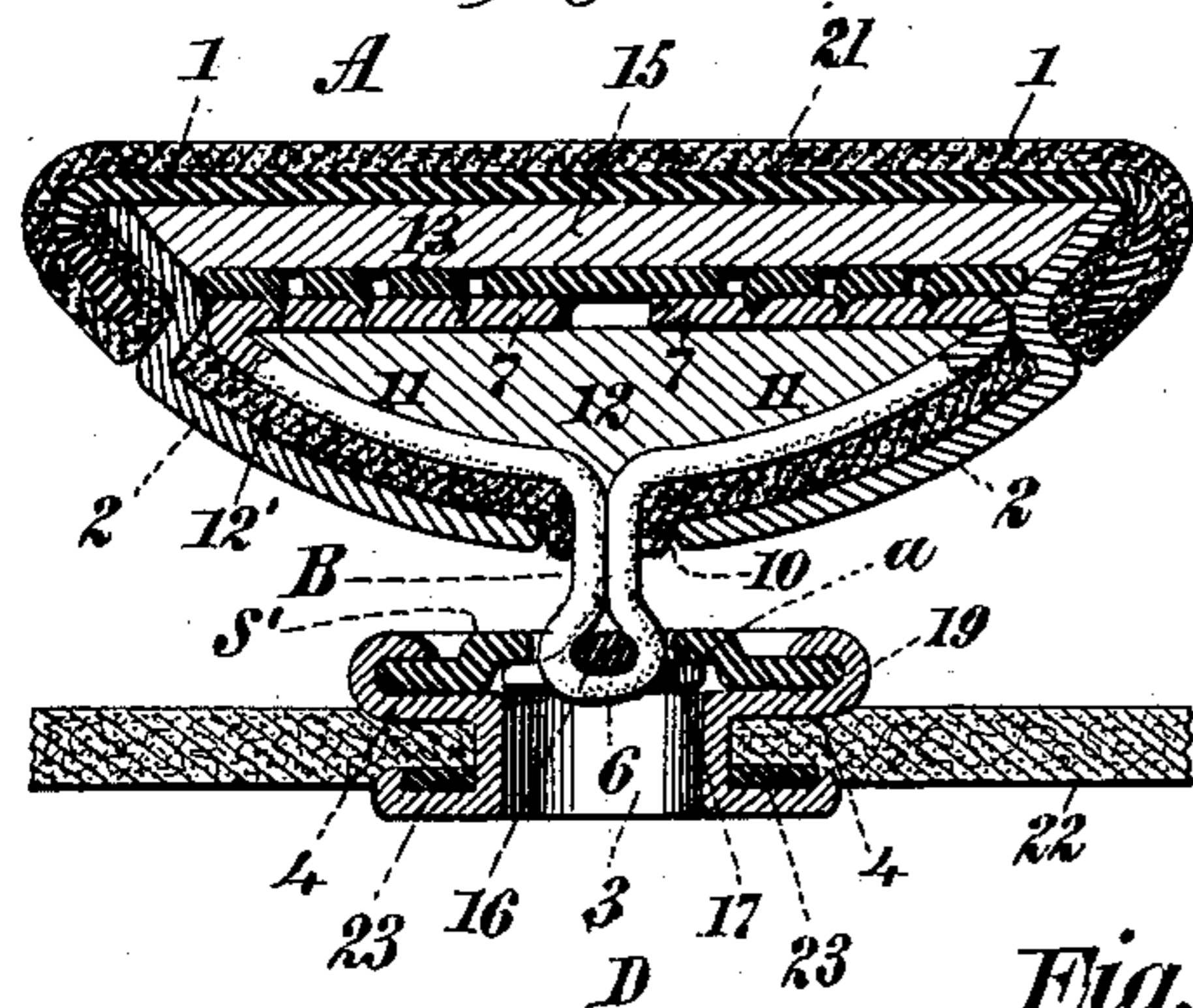


Fig. 6.

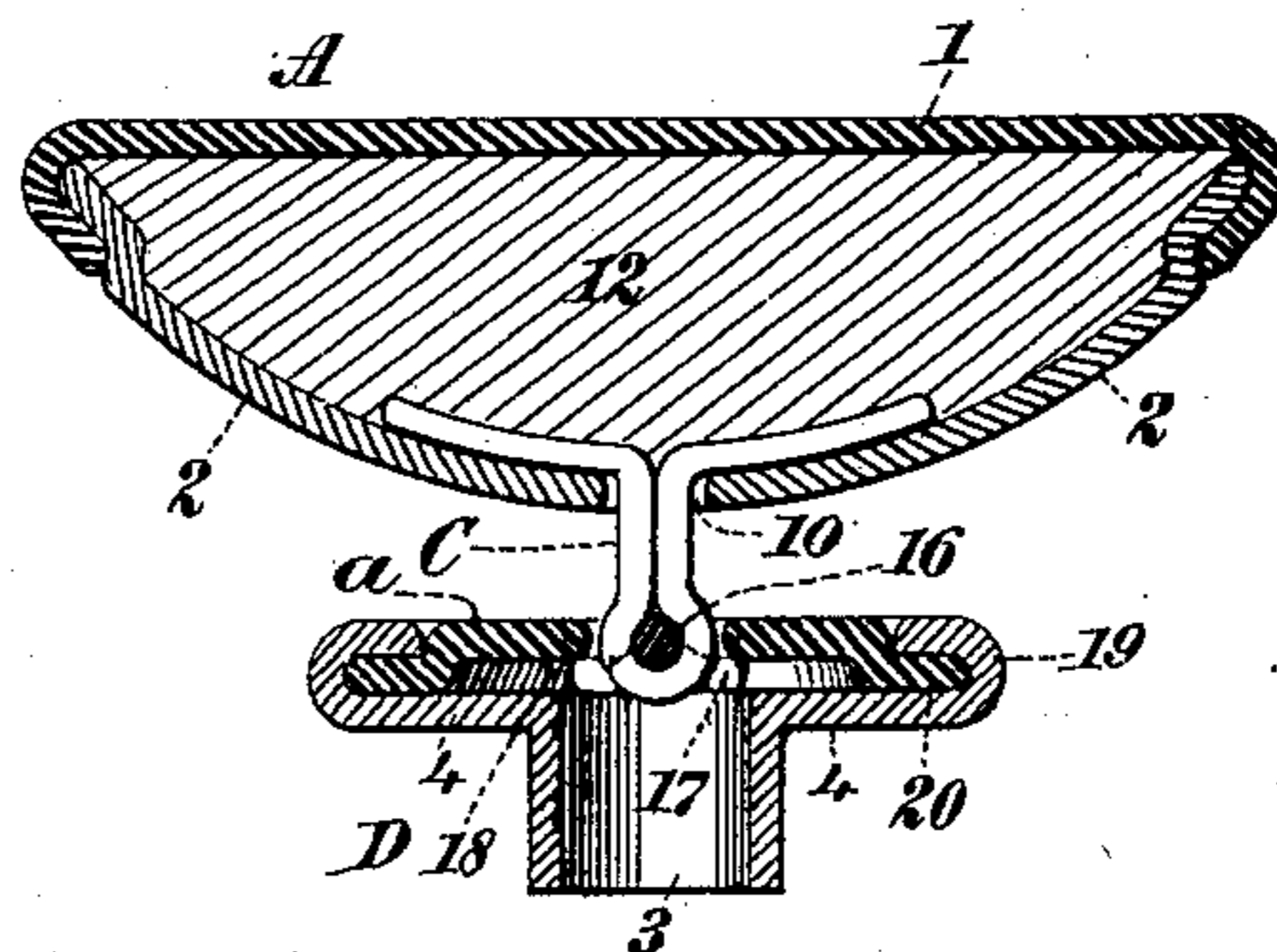


Fig. 7.

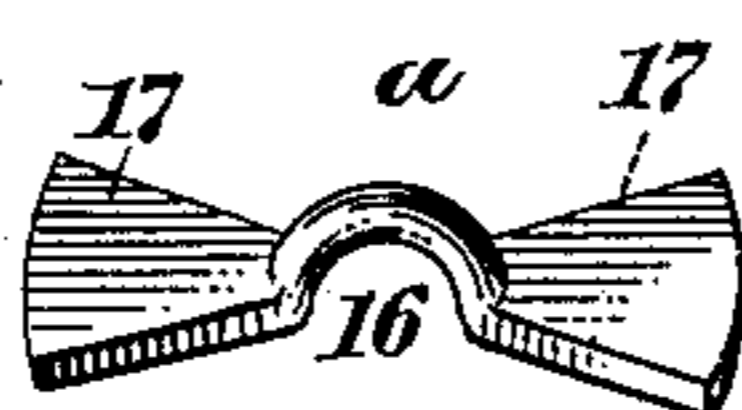
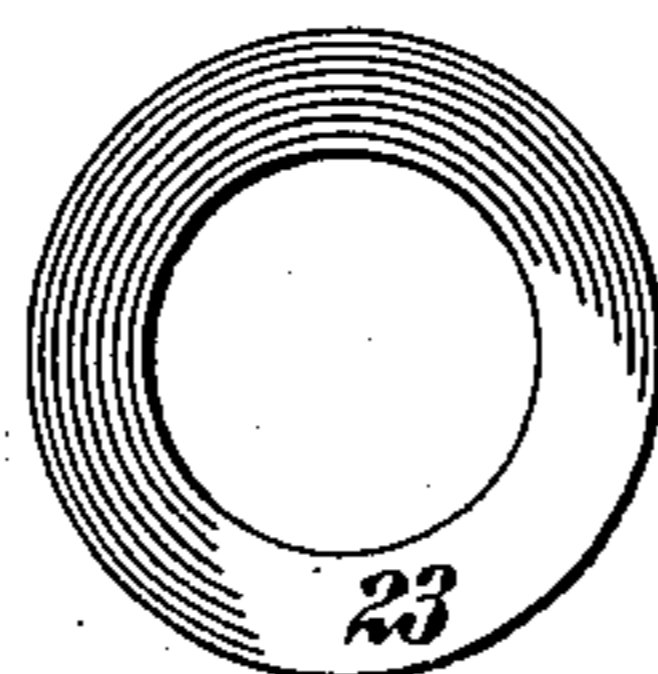


Fig. 8.



WITNESSES:

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COMBINED BUTTON AND BUTTON-FASTENING.

SPECIFICATION forming part of Letters Patent No. 753,612, dated March 1, 1904.

Application filed October 15, 1903. Serial No. 177,118. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. MCGILL, a citizen of the United States, and a resident of Riverdale-on-Hudson, in the county of New York and State of New York, have invented a certain new and useful Combined Button and Button-Fastening, of which the following is a specification.

This invention relates to fabric buttons and their fastenings, and provides an improvement in the device of this class patented to me December 16, 1902, by United States Letters Patent No. 716,267, wherein the button proper or button member of the device is movably and undetachably connected with a metallic fabric-attaching member by means of an intermediate link member, to the end of providing a flexible or swivel link connection between the button member and the fabric-attaching member and doing so independent and apart from the means employed in securing the latter member to fabrics.

In the accompanying drawings, making part of this specification, and in which similar reference characters indicate corresponding parts, Figure 1 presents a vertical sectional view of the device; Fig. 2, a plan view of its flexible link member; Fig. 3, a plan view of a surface-toothed clamping and packing plate used in the button member; Fig. 4, a view of the device similar to Fig. 1 excepting in the manner in which the link member is connected with the fabric-attaching member, the latter figure showing a modification in such connection; Fig. 5, a vertical sectional view of a modified construction of the device and showing it attached to a fabric; Fig. 6, another vertical sectional view of a modified construction of the device; Fig. 7, a perspective view of a retaining-bolt used in some instances in connection with the link member of the device; Fig. 8, a plan view of a metal washer used on the tubular stem of the fabric-attaching member, and Fig. 9 a vertical sectional view of a modified construction of said fabric-attaching member.

A is the button proper or button member.

B represents the intermediate link member made of flexible material, and C represents it made of metal.

D represents the fabric-attaching member.

The button member A, constructed as shown in Fig. 1, consists of an upper shell 1 and a lower shell 2.

The fabric-attaching member D consists of a hollow metal rivet having a tubular stem 3, merging at its top into a surrounding flange 4, set at right angles with the longitudinal direction of such stem and having a cap 5 covering the same.

The link member B consists of a strip of leather, braid, or such like flexible material folded longitudinally upon itself at its center 6 and left open and flat at its ends 7 7.

The parts are assembled, as in Fig. 1, as follows: The ends 7 7 of the link member are passed up through two slots or apertures 8 8 in the cap 5 of the attaching member and are drawn forward through the same until the folded center 6 of the link member bears against the under surface of the part of the cap (marked 9) between such slots, as shown in this figure. The free part of the ends of the link member are then entered in an aperture 10 in the lower shell 2 of the button member and are spread apart therein, as at 11 11, and a portion of them held in that position by the packing 12, now introduced into the button member, the terminals of such ends being then folded over such packing toward each other and secured in that position by a toothed-surface clamping-plate 13, Fig. 3, the teeth 14 of which are pressed down upon such ends. More packing 15 is placed on top of the plate 13, and the button is closed by crimping the edges of its upper shell 1 around the rim of its lower shell 2, completing the device, as shown in said Fig. 1.

In Fig. 4, which is a view of the device in opposite transverse section to Fig. 1, the button member A and link member B are shown constructed the same as they are in the latter figure, the attaching member D, as shown in Fig. 4, differing from that shown in Fig. 1 in the size, construction, and placement of its cap, the latter being shown composed of a metal disk 5' of a diameter less than that of the flange 4 of the member and having a raised center pierced by a single slot 8' instead of two slots, as in Fig. 1, and a sunken

rim, over which the periphery of the flange 4 is folded in securing the cap in position instead of the rim of the cap being folded around and under the periphery of the flange, as in Fig. 1. Through the central slot 8' of the cap so formed is entered from above the folded center 6 of the link member B, and wherein the latter is secured by entering in its loop beneath the cap a wire bolt *a*, Fig. 7, provided with a round arched center 16 and flattened end parts 17 17, the latter being seated in the elevated under part 18 of the center of the cap 5' and secured therein by the upwardly-projecting rim 19 of the flange of the tubular stem of the attaching member, being crimped down upon the sunken periphery 20 of its cap 5', said bolt *a* serving in the construction shown in this figure the purpose of the central part 9 of the cap shown in Fig. 1.

In Fig. 5, which is a view similar to Fig. 4 in opposite transverse position, the upper outer part of the button member is shown covered with a textile material 21 in the usual manner of covering buttons and with a cushion of packing 12' beneath the spread of the link member and surrounding its looped center, providing it thereat a protecting-collar, and the device is shown in similar section secured to a fabric 22, as intended, by having the open end of the tubular stem of its attaching member passed through such fabric and through a metal bur or washer 23, Fig. 8, placed on the opposite side of the fabric and upset or clenched upon said washer in manner to clamp the fabric between it and the flange 4 of such tubular stem.

In the vertical transverse sectional Fig. 6 the device is represented provided with a metal link member C, connecting with the attaching member in the same manner shown in Figs. 4 and 5 and having its ends spread apart in the button member and held therein in that position by the packing material 12.

The vertical transverse sectional Fig. 9 shows the attaching member D made in a single piece or as a one-piece tubular rivet, having its head provided with the two apertures 8'' 8'' and between them the part 9, round in transverse section.

In Figs. 1 and 5 the clamping-plate, Fig. 3,

is shown in transverse section on the line Y Y of the latter figure, while in Fig. 4 it is shown in transverse section on the line X X of said figure.

In my patented device hereinbefore referred to the comparatively narrow folded center of the link member engages with the eye, stem, or stand of the button member, while its free ends are spread apart and clamped in the comparatively narrow attaching member. Consequently the area of the clamped surfaces of such ends is limited to the diameter of such attaching member, which being small in comparison with the diameter of the button makes it preferable to engage the folded narrow center of the link member with the narrow attaching member and to spread and secure the free ends of the link member in the wider body of the button member, and thereby secure for them greater area of clamped surfaces. This is an important feature, especially where the link member is made of textile or other flexible material, and it is this feature that forms the subject-matter of my present invention.

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

A combined button and button-attaching device consisting of a button member, a metallic fabric-attaching member, and an intermediate link member; the button member and the fabric-attaching member being secured together in movable and undetachable link connection by means of the intermediate link member, the latter member consisting of a strip of material folded at its center and connected thereat with the fabric-attaching member, and having its free end parts secured to the button member by being entered therein and clamped in the space between the upper and lower shell of such member in manner to prevent its withdrawal therefrom.

Signed at Riverdale-on-Hudson, in the county of New York and State of New York, this 12th day of October, A. D. 1903.

GEORGE W. MCGILL.

Witnesses:

C. M. POWER,
• CHARLES PLATNER.