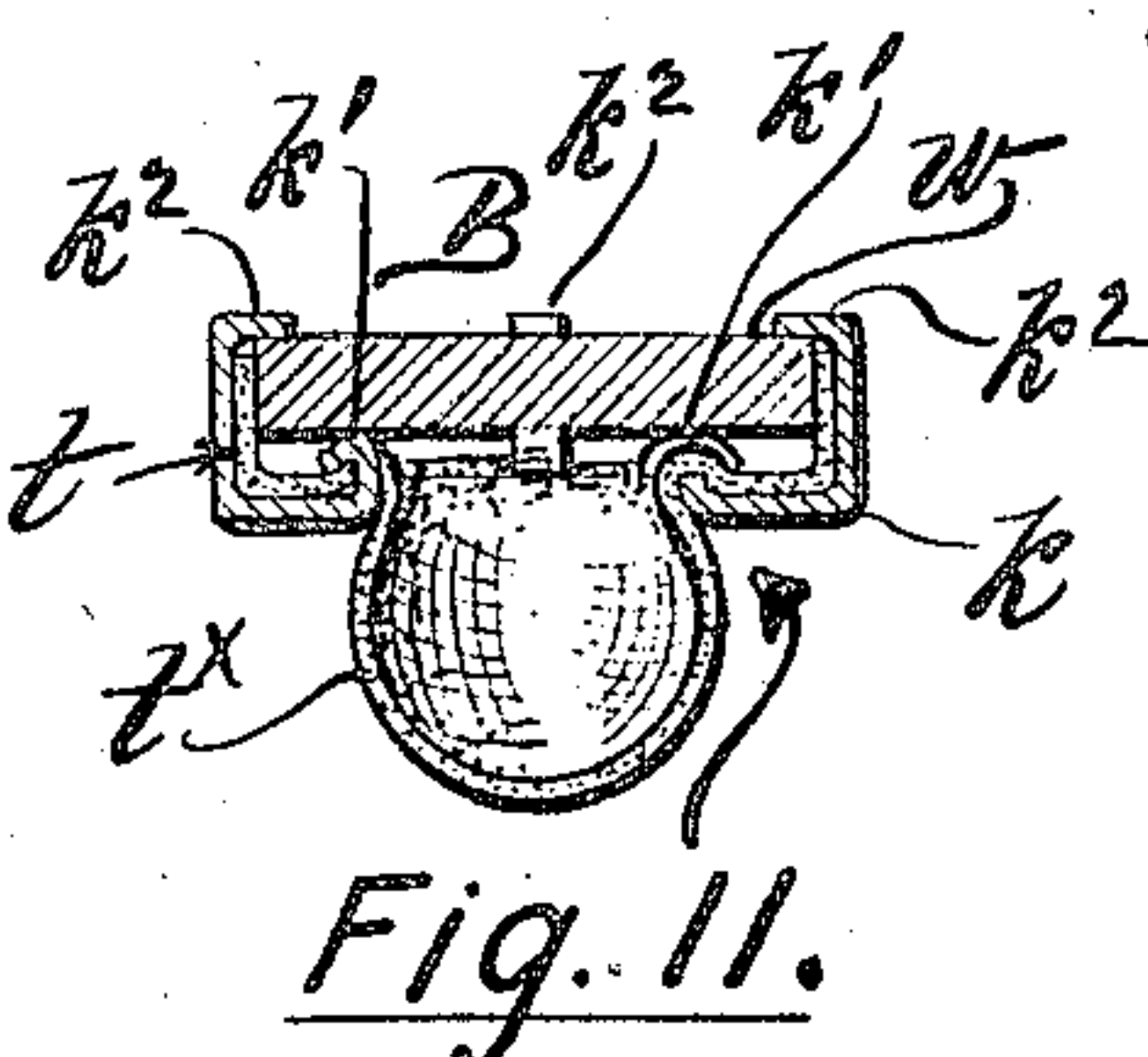
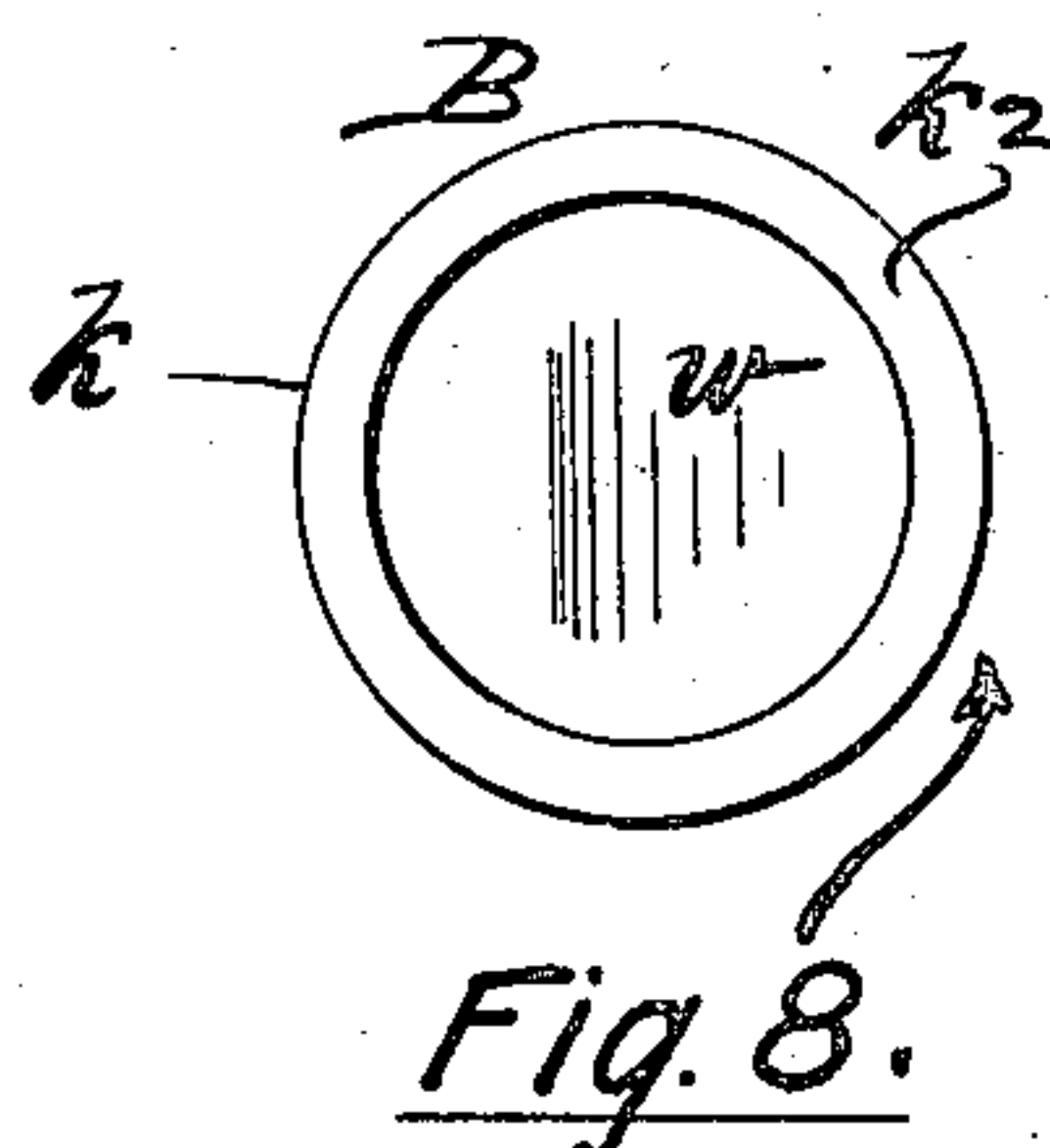
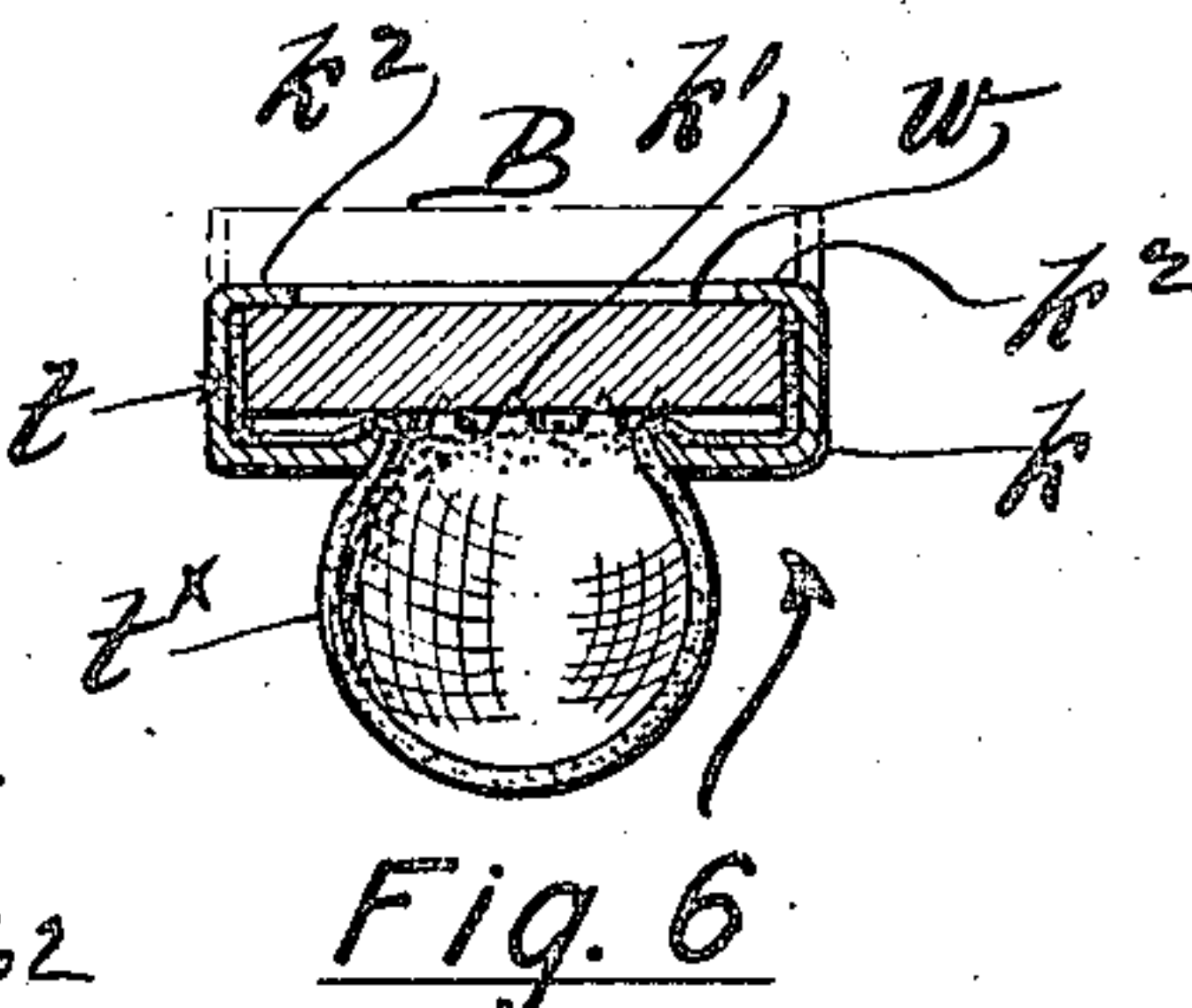
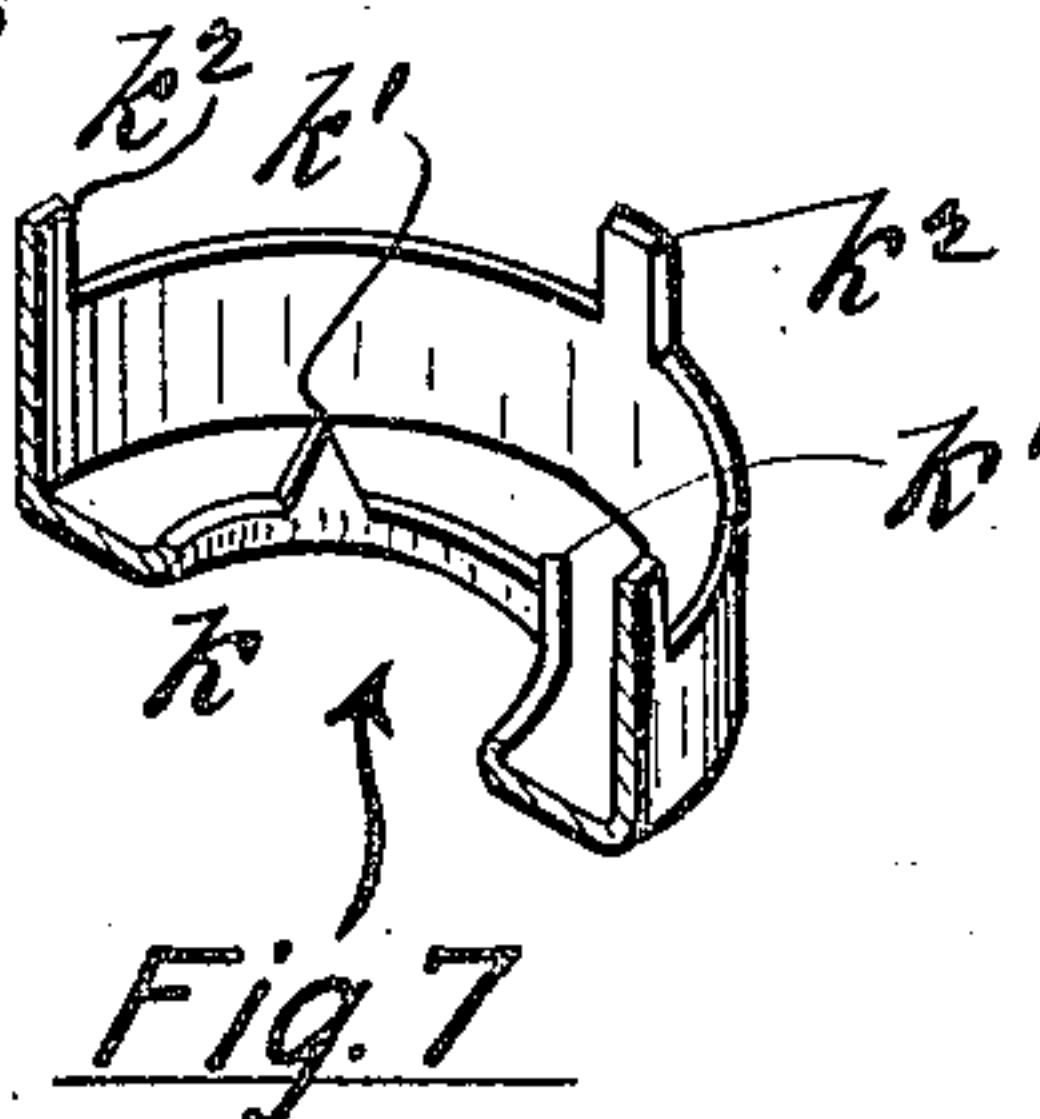
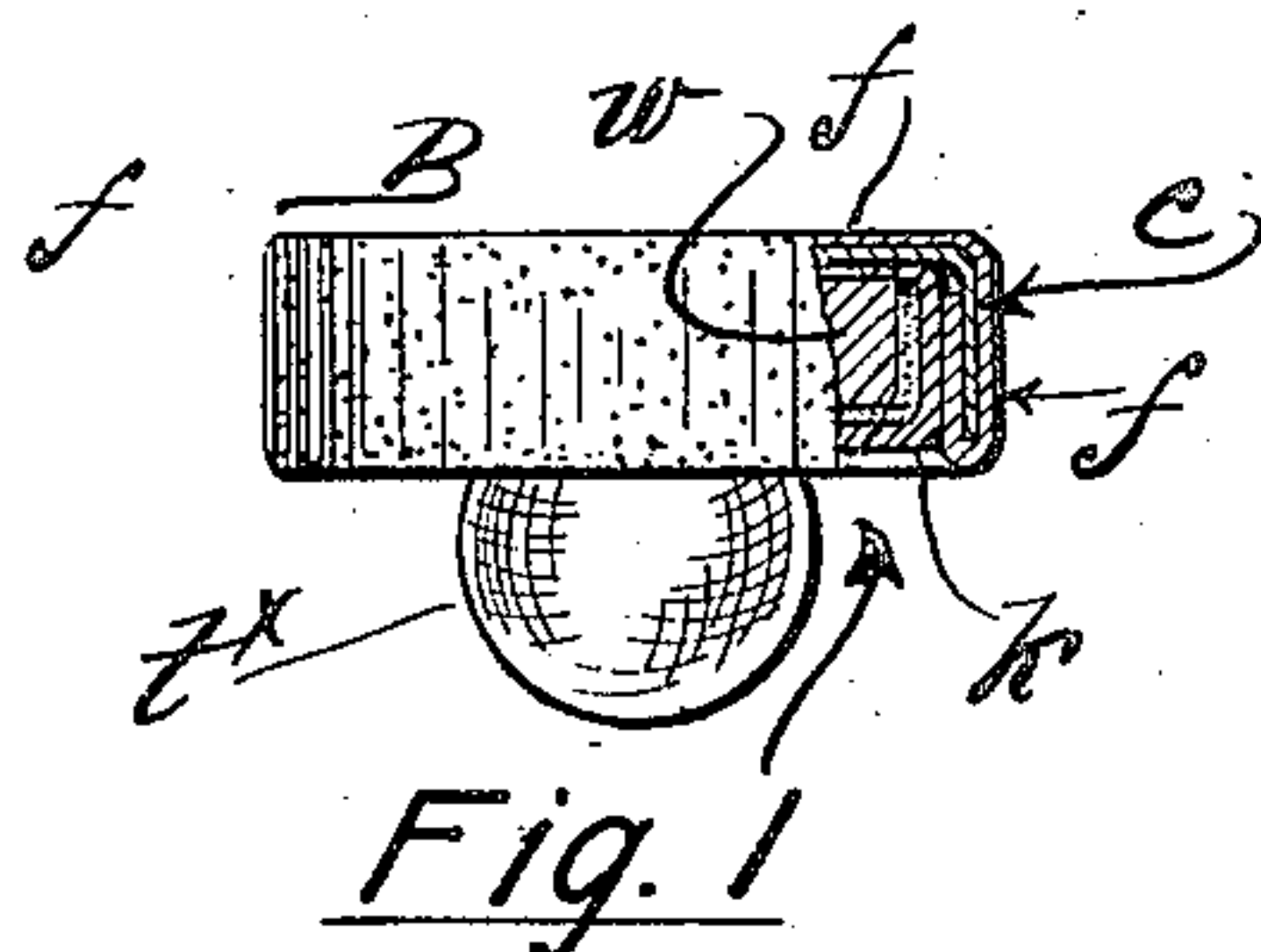
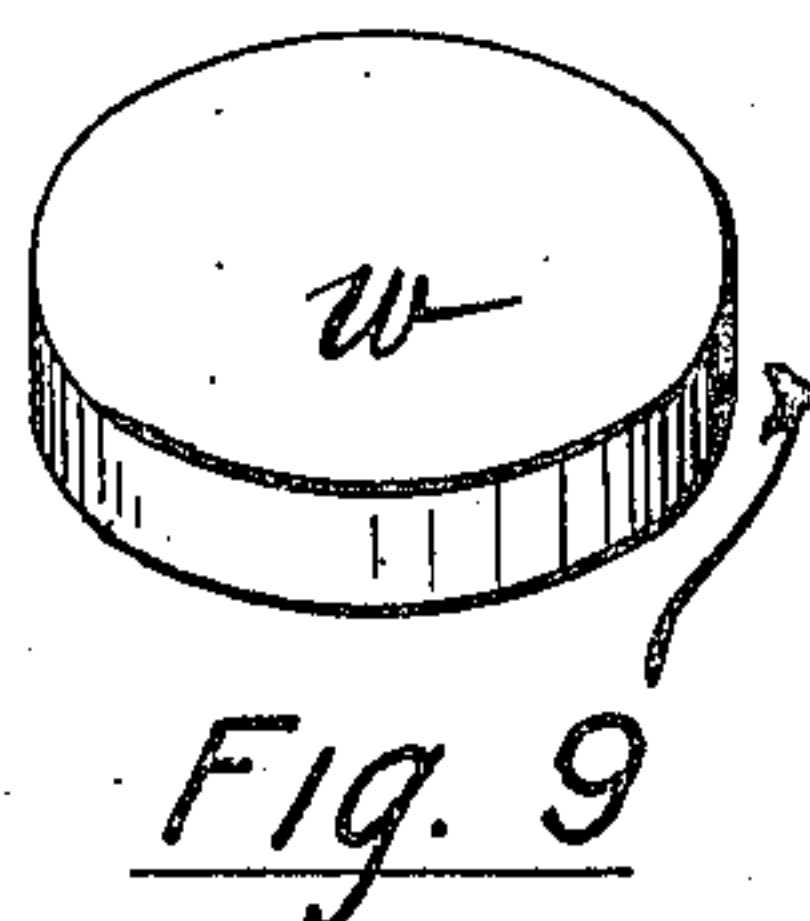
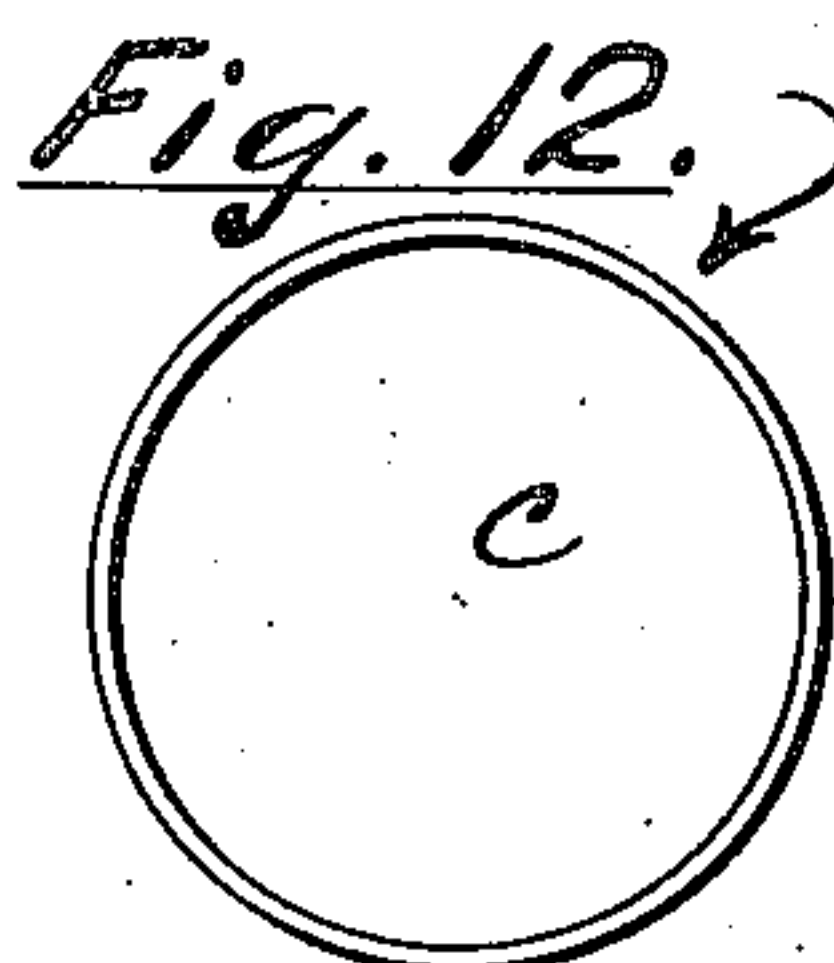
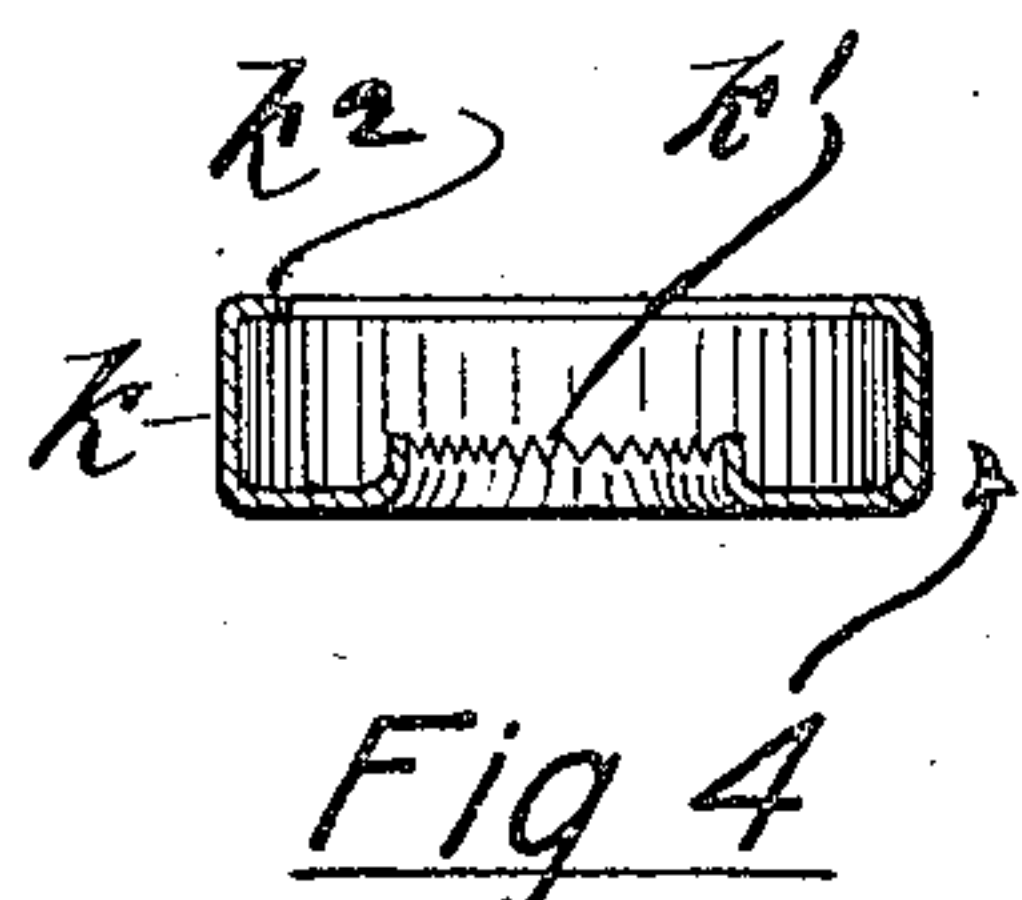
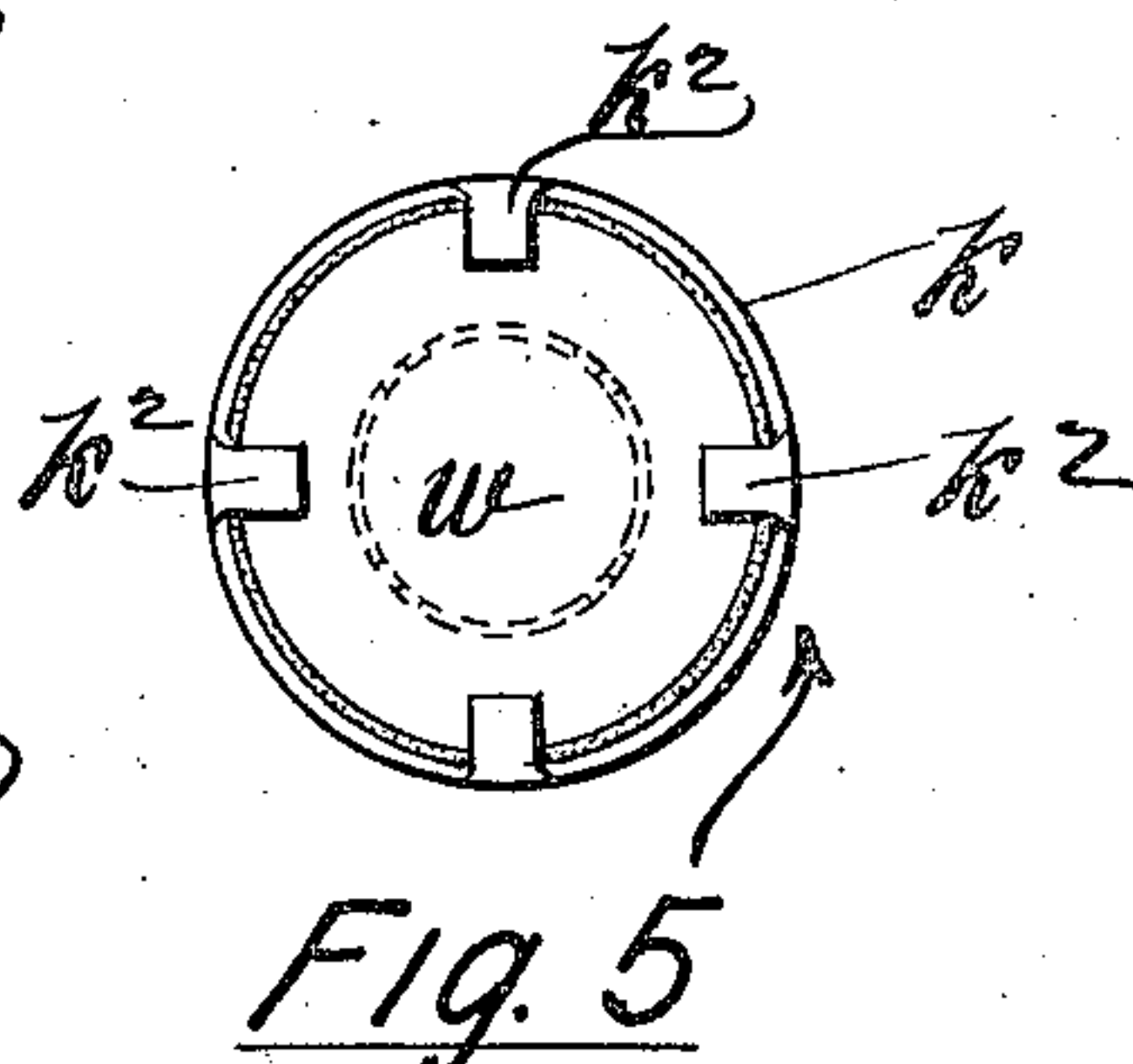
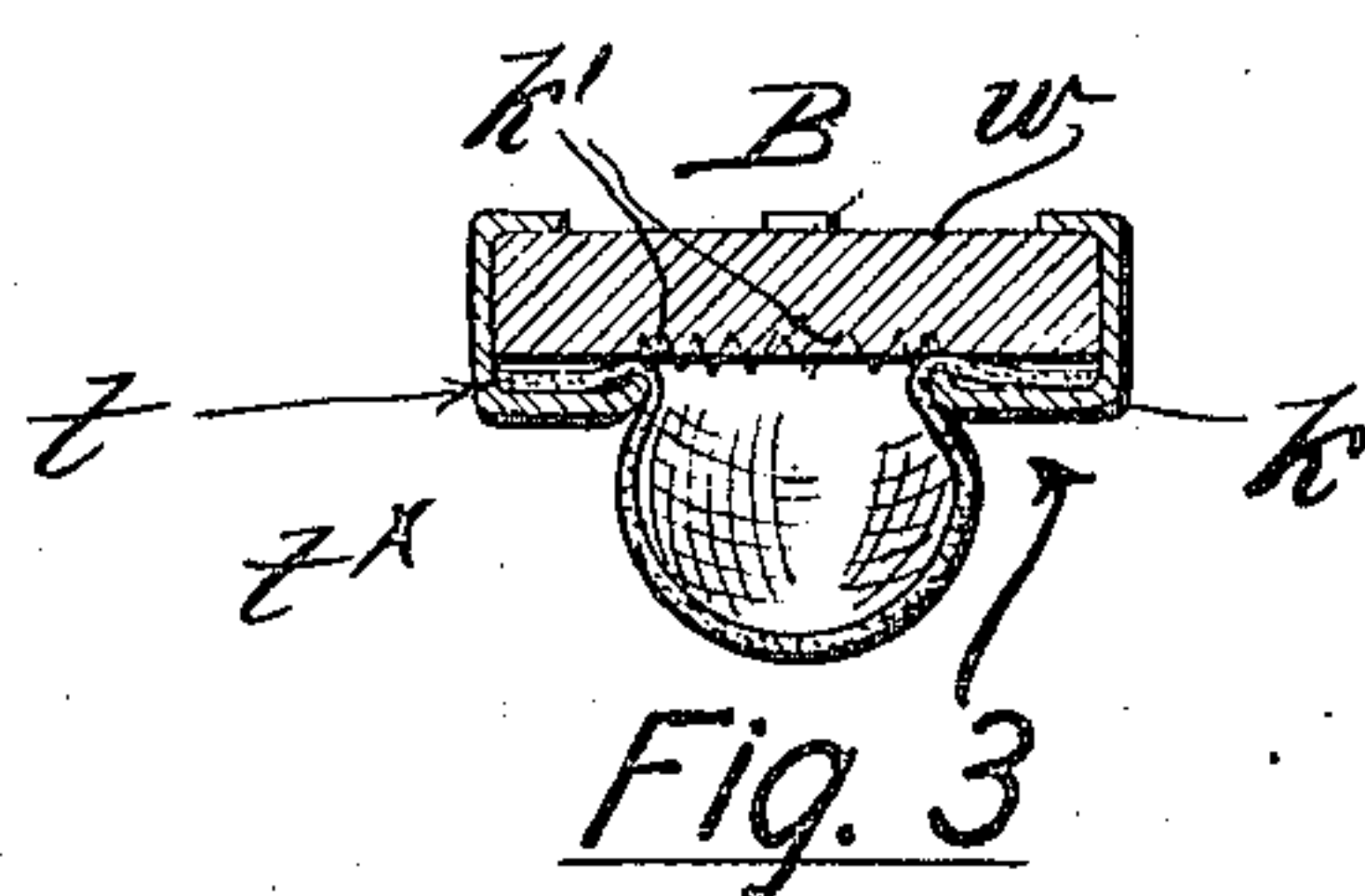
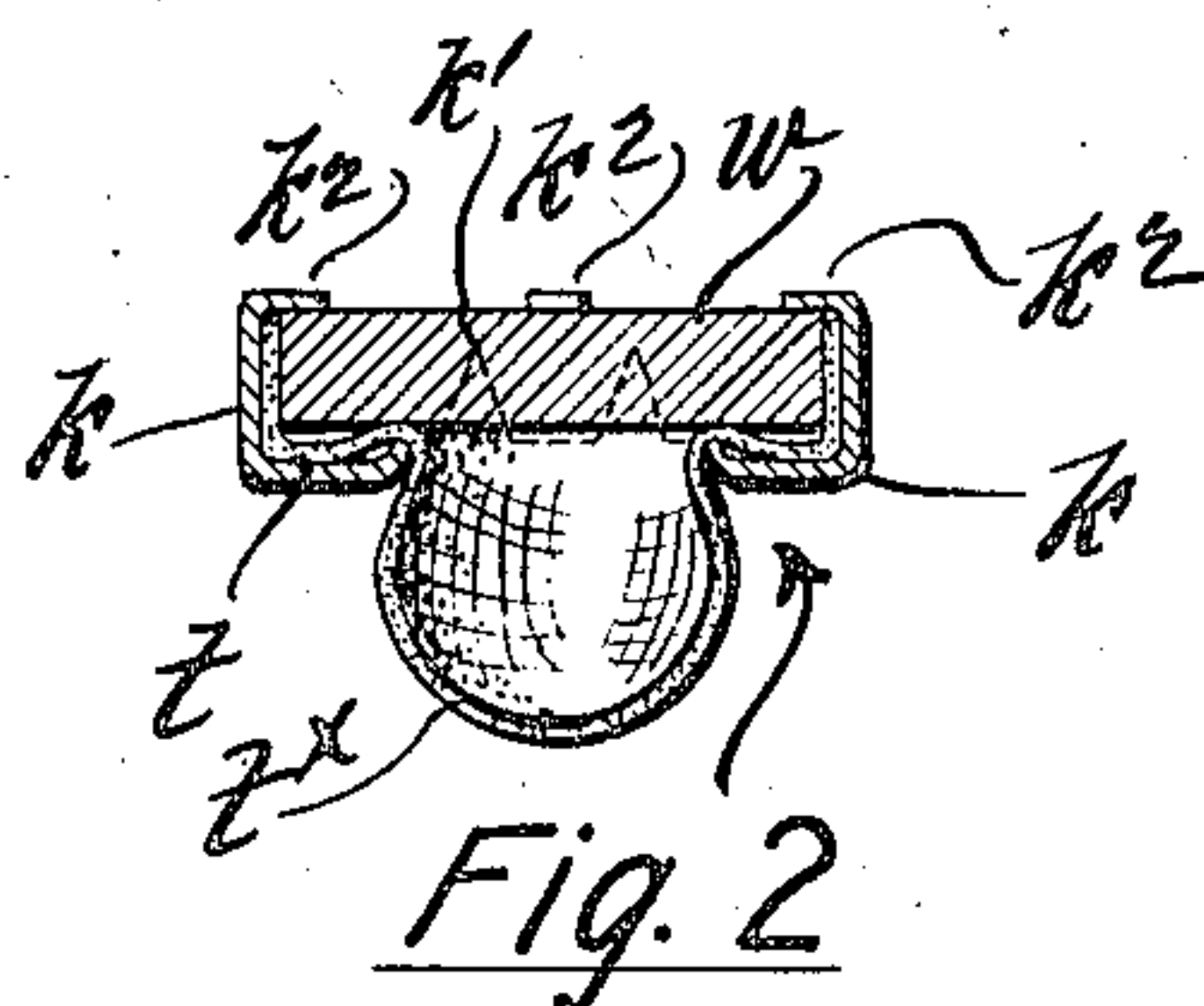
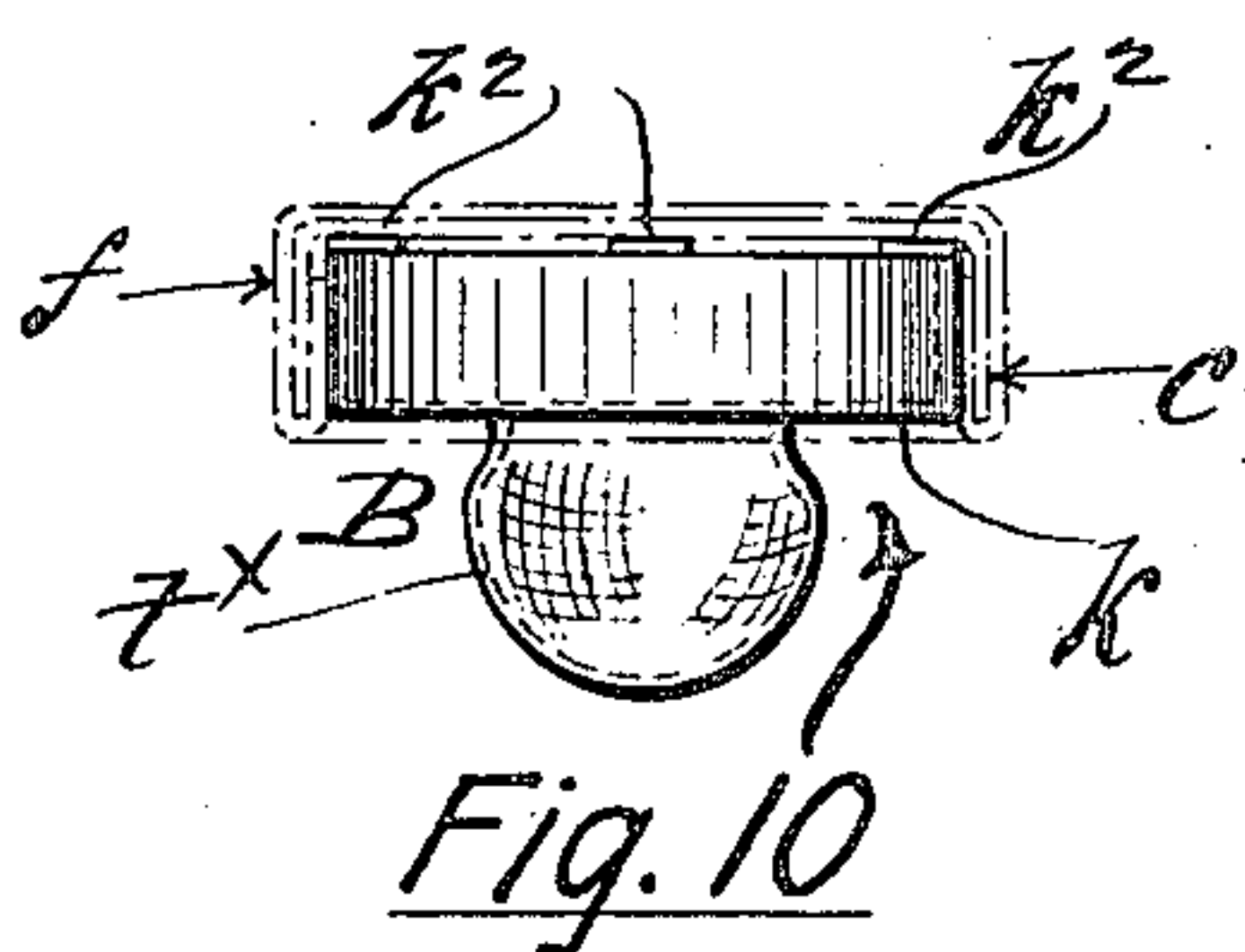


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J. A. DEVENDOR ET AL.
TUFTED BACK MOLD FOR CLOTH COVERED BUTTONS.
FILED FEB. 15, 1922.



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TUFTED BACK MOLD FOR CLOTH-COVERED BUTTONS.

Application filed February 15, 1922. Serial No. 536,650.

To all whom it may concern:

Be it known that we, JOHN A. DEVENDOR, a citizen of the United States, residing in the borough of Manhattan, city, county, and State of New York, and MICHAEL J. KIELY, a citizen of the United States, residing in the borough of Brooklyn, county of Kings, city and State of New York, have invented certain new and useful Improvements in Tufted Back Molds for Cloth-Covered Buttons, of which the following is a specification.

Our improvements appertain to the so called "molds" or backs used in the formation of buttons faced with cloth or analogous flexible material, said molds being each provided with a rear-tuft constituting the means of attachment of the button, considered in a unitary sense, as applied to a garment or other article for use, all in a manner well known in the prior state of the art; our invention consisting essentially in the specific construction, combination and arrangement of parts and appliances herein described and claimed, and, distinctive features relating to the means for, and method of, effectually securing the component parts of the button together substantially as hereinafter fully set forth.

In the accompanying drawings,

Fig. 1, is an elevation, partly in central transverse section, of a completed button embodying the essential features of our invention;

Fig. 2, is a central transverse section of our improved mold or backing as used in the structure shown in Fig. 1, the facing and cap shell being omitted;

Fig. 3, is a view like unto Fig. 2, showing a modification;

Fig. 4, is a transverse central section of one form of collet adapted for use in our combination;

Fig. 5, is a top or inner face view of the parts shown in Fig. 2;

Fig. 6, is a section like unto Fig. 2, showing a modification in the construction of the collet;

Fig. 7, is an isometrical cross section of the collet shown in Figs. 2 and 5;

Fig. 8, is a top or inner face view of the construction shown in Fig. 6;

Fig. 9, is an isometrical view of the wad or pad used in conjunction with our improved construction of button back;

Fig. 10, is a side or edge elevation of the construction shown in Figs. 1, 2 and 5, the facing or cover, and its shell cap being indicated in dotted lines;

Fig. 11, is a central transverse section of our improved backing, showing still another modification in the application of the collet;

Fig. 12, is a view of the inner side of a cap shell such as used in securing the cloth facing to our improved backing.

f, is the usual cloth or flexible facing of the completed button, and *c*, the cap shell, also of usual construction, upon which said flexible facing *f*, is mounted, and which affords the means whereby the said facing is secured directly to the collet *k*, and hence to the backing *B*, considered in a unitary sense. We do not claim any novelty in so far as the facing *f*, and its cap shell *c*, are concerned, our invention relating more particularly to the specific construction of the collet *k*, in conjunction with the method of securing the tuft fabric *t*, thereto and also to the filler-wad *w*, in such manner as to attain practically an integral structure of mold or backing *B*, in which said tuft member is positively incorporated, and from which it cannot be dislodged or separated under ordinary conditions of use.

What for convenience may be designated as the attachment-fabric *t*, consists of a suitable blank of fibrous or textile material formed centrally, and in a manner well known in the art, with the bulbous tuft *t*^x, by means of which the completed button is secured to a garment or other article as heretofore.

It will be seen that the mold or backing *B*, consists of three parts, namely, said attachment tuft fabric *t*, *t*^x, the "wad" or filler pad *w*, and the collet *k*,—the latter being by preference formed of sheet metal, die-stamped into shape for application to the two other parts named;—the filler pad or wad *w*, consisting of a plate or thickness of cardboard or other suitable fibrous material of a shape corresponding to the configuration of the completed button. Thus, in the accompanying drawings, said filler-pad or wad *w*, is shown as consisting of a round disc in conformity with the circular shape of the completed button, the construction of which is shown by way of exemplification therein, it being understood in this connection that we do not limit our inven-

tion in this respect, and that substantially the same structure and method of formation may be employed in the formation of other shapes of button with like results and advantages,—the gist of the invention consisting essentially in forming the inner edge of said collet k , with a plurality of serrations or barbs k' , which penetrate the attachment tuft-fabric t , and secure it fixedly to the back side of the filler wad w , in conjunction with marginal overlaps k^2 , on the collet k , which is or are intumed over the filler wad w , and bind and clamp all three parts of the backing into a unitary structure, as shown particularly in Figs. 1, 2, 3, 6 and 11, of said drawings.

The serrations k' , may be relatively small and continuous, as indicated in Figs. 3 and 4, or may consist of larger spaced apart teeth or barbs, as in Figs. 2, 6, 7 and 11, as may be found most expedient in accordance with the character and requirements of the button involved.

In Fig. 11, of the drawings, these barbs or serration k' , are shown as penetrating through the attachment-tuft fabric t , and then clinched thereon, with the wad, w , resting against said clinched portions of the teeth or serrations k' , whereas in Figs. 2, 3 and 6, the serrations not only penetrate through the cloth t , but also into the filler wad w . In either alternative construction the result is the same in that the tuft cloth t , with its bulbous tuft t^* , is firmly secured to the filler w , and to the collet k , when the peripheral overlap k^2 , of the latter is folded over and forcibly set against the circumferential edge of said filler wad w .

The peripheral overlap k^2 , of the collet k , may consist of a plurality of equi-distant tongues or flanges, as in Figs. 2, 3, 5, 7 and 11, or of a continuous circumferential edge of the collet k , as in Figs. 4, 6 and 8, the inturning and stamping down of which against the filler wad w , constitutes an annular bearing shoulder as shown particularly in Figs. 4, 6 and 8. Furthermore, this annular rim may be serrated as indicated in Fig. 4, to facilitate the crimping operation if desired.

When the backing B, is thus constructed it is practically impossible for the attachment-tuft-fabric (usually a suitable grade of canvas, so called) to pull out or become deranged or loose under ordinary conditions

of use. By our construction, also, we are enabled to use a minimum size of attachment-tuft-cloth or fabric, particularly in the form shown in Fig. 3, in which the circumferential edge of said fabric t , is confined within the collet k , and between the latter and the filler wad w , but does not extend between the peripheral edge of the filler w , and the opposed sides of the collet as in the other figures of the drawings,—the serrations k^2 , being relied upon in any and all cases to positively anchor the tuft t^* , to the backing B.

As before intimated, the drawings exemplify a practical embodiment of our improvements as applied to a button of circular configuration, although the essential features of the invention may be embodied in the construction of buttons of other shapes, as oval, square, triangular, hexagonal, etc., so that we do not limit ourselves to the identical form and construction of parts shown, since various modifications in detail may be resorted to, in adapting the essential features of our construction to the varying requirements of manufacture and trade without departing from the spirit and intent of our invention in this respect.

What we claim as our invention and desire to secure by Letters Patent is,

1. A button backing of the character designated, comprising a fibrous filler-wad, an attachment-tuft-fabric, and a collet formed with preformed serrations penetrating said attachment-tuft-fabric and also with marginal overlap by means of which the component parts of the backing are clamped together, substantially in the manner and for the purpose described.

2. A button backing of the character designated, comprising a fibrous filler wad, an attachment-tuft-fabric, and a collet formed with serrations which penetrate said attachment-tuft-fabric and protrude into said filler wad, said collet being also formed with marginal overlap by means of which the component parts of the backing are clamped together, substantially in the manner and for the purpose described.

JOHN A. DEVENDOR.
MICHAEL J. KIELY.

Witnesses:

GEO. WM. MIATT,
DOROTHY M. CARMICHAEL.