March 29, 1932. C. S. BARON 1,851,483

COLLAR FOR CONNECTING CONTAINER BODIES TO THEIR LIDS

Filed April 13, 1928

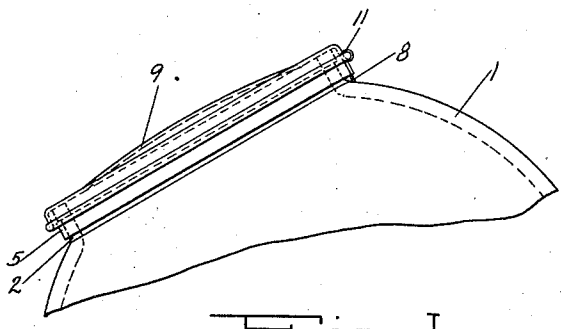

Fig. I

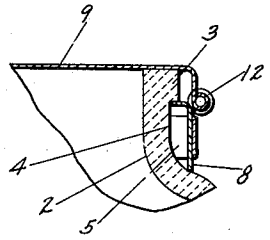

Fig. V

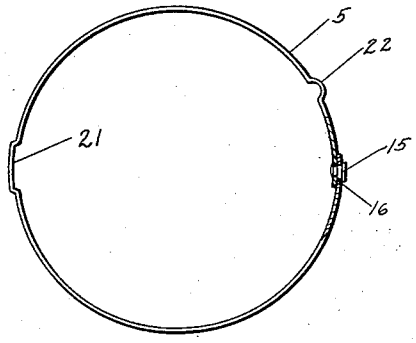

Fig. II

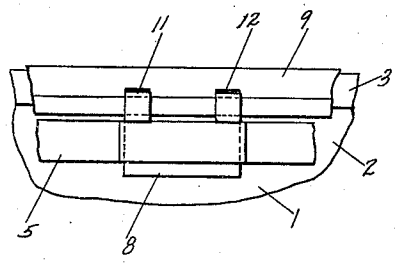

Fig. VI

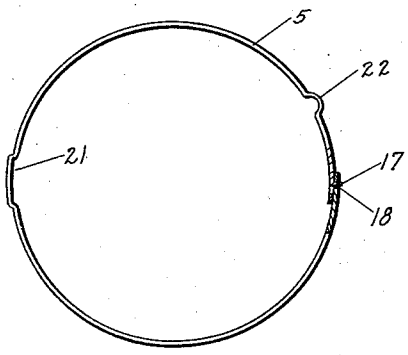

Fig. III

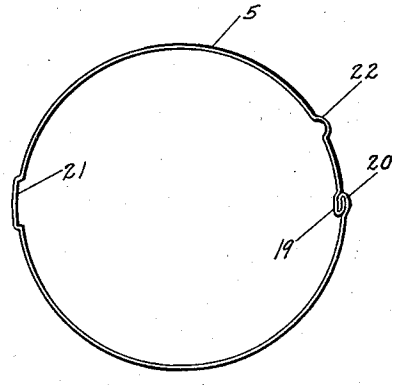

Fig. IV

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Patented Mar. 29, 1932 1,851,483

UNITED STATES PATENT OFFICE

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COLLAR FOR CONNECTING CONTAINER BODIES TO THEIR LIDS

Application filed April 13, 1928. Serial No. 269,745.

My present invention relates to the subject matter of my application for United States Letters Patent, Serial Number 218,071, filed September 7, 1927, and has for its object improvements in the flexible collar for the connection of the lid to the container body described in said application, whereby snugness of fit of the said connection is augmented, and the manipulation of the collar for the purposes of adjustment is facilitated.

What constitutes my present invention will be hereinafter described in detail, and succinctly defined in the appended claims.

In the accompanying drawings which illustrate my invention,

Figure I is a side elevation of a portion of the container body, its lid, and means of connection between the same as shown in my previous application with the variation of flexible collar embraced herein as a substitute for part thereof.

Figure II is a top plan view, partly in section, of the said flexible collar detached and in its preferred form of embodiment.

Figure III is a view similar to Figure II, showing a slight modification of the collar locking device.

Figure IV is a similar view of a further modification of the locking device.

Figure V is a vertical section on an enlarged scale of so much of the subject matter of Figure I as is necessary to illustrate the relationship of collar and lid connection.

Figure VI is an outside elevation of the device taken at right angles to the view shown in the preceding figure.

Referring to the numerals on the drawings, 1 indicates the body of a glass or other container, which is provided with an integral mouth-defining ring 2. The ring is provided with an outwardly extending peripheral flange 3, defining between it and the body a neck comprising an annular recess 4, all the parts above indicated being substantially identical, in respect to form and function, with the corresponding parts shown in my previous application aforesaid.

Snugly fitting within the recess 4 is a flexible resilient collar 5 which embodies my present invention. Said collar is distinguished from the collar shown in my previous application by comprising within itself a locking device for uniting its ends together in order to secure it in place within the recess 4.

In that regard, a bifurcated fastening member separate from the collar is shown in my previous application as a necessary part for uniting together the ends of the collar body. By my present invention, the necessity for the separate fastening member, as such, is eliminated, but the member indicated herein by the numeral 8, in so far as it constitutes a hinge support for a container lid 9, is retained to constitute a hinge clip. In the present instance, the member 8 need not be bifurcated, although actual elimination of the presence of the bifurcation is not necessary. With the exception of the bifurcation, the form of the member 8 and its means of forming a hinge connection with the container lid remains unchanged. Specifically, the fulcrum plate, indicated herein by the numeral 10 and disposed preferably between knuckles 11 and 12 as in the preceding application, is retained for the purpose of effecting the function therein specified.

The collar 5, aforesaid, is, in the present invention, preferably provided near one end with a button 15, and near the other end with a complementary slot 16, of two transverse widths adapted, respectively, to receive the button 15 and, by hook engagement with the shank thereof, to fasten the ends of the collar 5 together when the collar is set in the annular recess 4.

The button and slot connection just described is at present regarded as the preferred form of locking device for uniting the ends of the collar together, but a slight modification of the locking device is illustrated in Figure III, wherein is shown instead of the button 15, a headed flat retaining piece 17 which is cut out of the metal of the collar 5, and is bent outwardly to constitute a male retaining member corresponding in function to the button 15. It is adapted to take into a complementary narrow transverse slit 18, and to constitute, in effect, a substitute for the button and slot connection above described. In Figure IV a modification of the

locking device, consisting of two interengaging hooks 19 and 20, is shown. The three forms of locking device illustrated are presented as examples only of a variety of forms of locking devices which might, if desired, be employed for the purpose indicated.

Besides a suitable locking device, I prefer to provide the collar 5 with a countersunk recess 21 fitted to and adapted to receive and hold the hinge clip 8. Also, I prefer to provide the collar with a contractile or tension device consisting, preferably, of a transverse expansible loop 22 formed in the collar as by bending the resilient body thereof. The presence of said loop permits the elongation of the collar in order to facilitate its adjustment in assembling it with other members upon the container. The contractile effect of the collar 5 may be arrived at through the resiliency alone of the metal of which the collar is made, or it may be accomplished by pinching together the sides of the loop 22 between the jaws of a pair of ordinary hand pliers, when the collar 5 is fitted in place in the recess 4 of the container body 1.

The operation of my device will, it is believed, be apparent to one skilled in the art, particularly in view of my previous application, aforesaid, without further description herein.

What I claim is:

1. A device for fastening a lid to a container consisting of a resilient flexible integral metallic collar, means detachably connecting the ends of the collar together, said collar being normally larger than the neck of the container so as to facilitate the insertion of the neck of the container into the collar and having a contractile loop formed therein to provide compressible spaced side portions adapted when compressed to insure the positive engagement of the parts.

2. The combination with a container, a lid, a hinged clip connected to said lid, a resilient flexible collar normally larger than the neck of the container so as to facilitate the insertion of the neck of the container into the collar and having an enlarged off-set portion engaging said hinged clip for maintaining the lid in position on said container, said collar having a contractile loop formed therein to provide compressible spaced side portions adapted when compressed to insure the positive engagement of the parts.

In testimony whereof, I have hereunto set my hand.

CHARLES S. BARON.