Dec. 1, 1942. H. D. ELLIS 2,303,625

CLOSING RING FOR CONTAINERS

Filed July 24, 1940

Fig. 1.

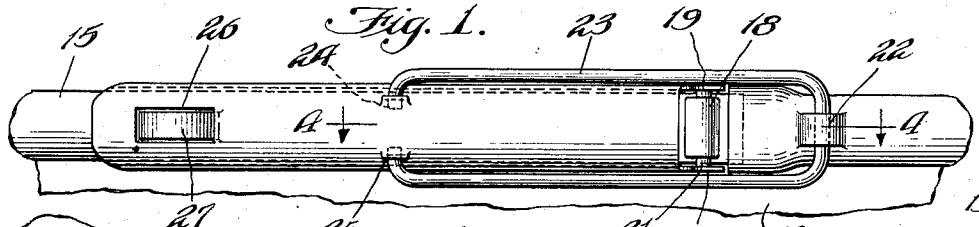


Fig. 2.

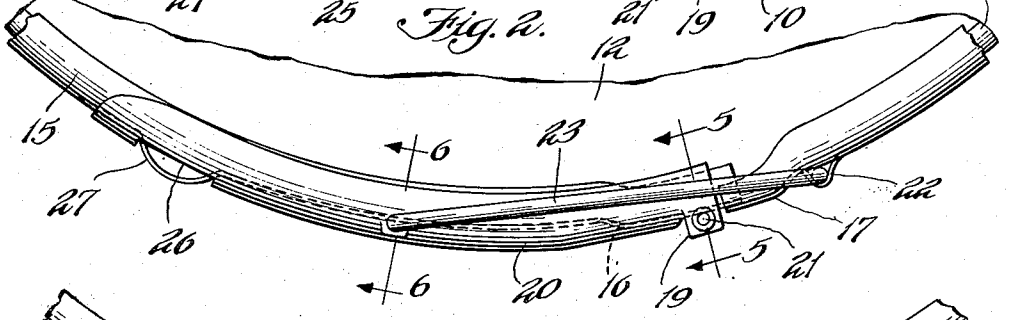


Fig. 3.

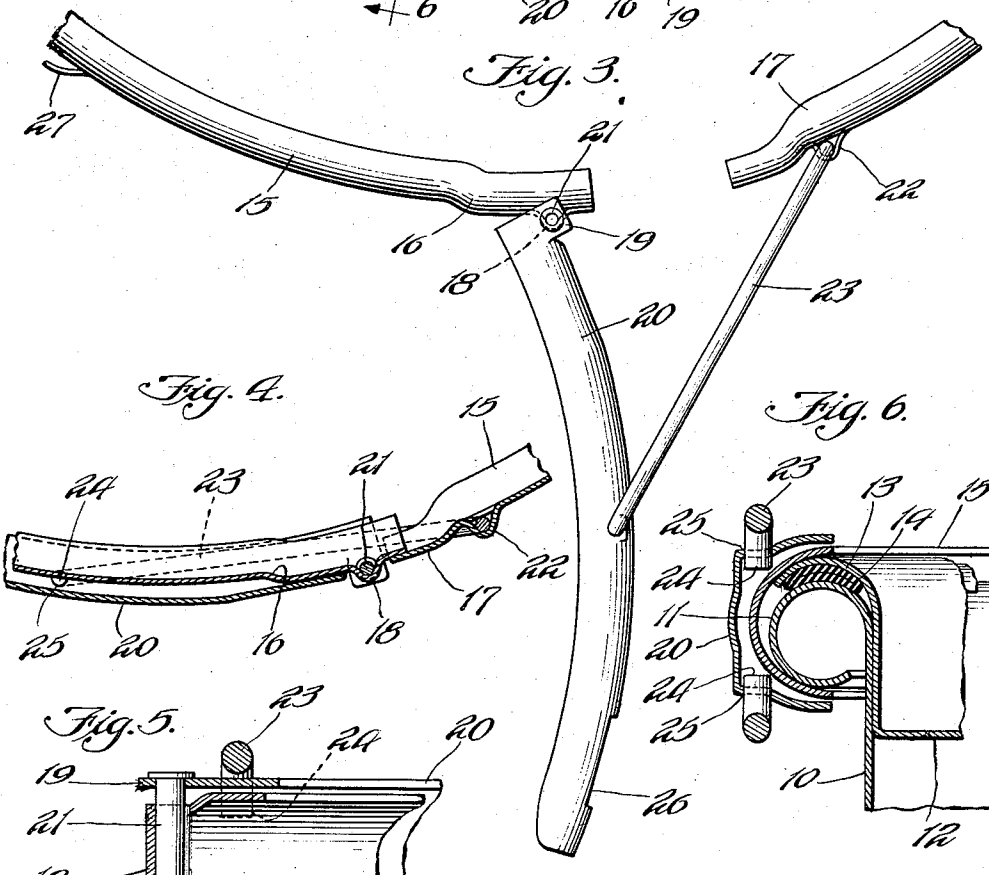


Fig. 4.

Fig. 5.

Fig. 6.

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CLOSING RING FOR CONTAINERS

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Application July 24, 1940, Serial No. 347,206

1 Claim. (Cl. 220—61)

This invention is a ring of the type commonly used for fastening covers on containers such as cans, pails or barrels. Various forms of these rings have heretofore been proposed and used and the present invention is directed to the simplification of such devices whereby they may be made at a minimum cost.

The objects of the invention are to provide a ring of the character set forth having simply an efficient means for closing and opening the same to provide a closing ring having a minimum number of parts that may be readily assembled and to provide such other novel features and advantages as will be described more fully hereinafter.

In the accompanying drawing illustrating this invention,

Fig. 1 is a side view of the top portion of a container showing the closing ring in place;

Fig. 2 is a plan view;

Fig. 3 is a plan view of a portion of the ring showing it in opened position;

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 1;

Fig. 5 is a sectional view taken on the line 5—5 of Fig. 2;

Fig. 6 is an enlarged sectional view taken on the line 6—6 of Fig. 2.

The container tin may constitute any receptacle such as a pail, can, barrel or the like and is provided at the top with the usual bead or curl 11. The cover 12 has a flange 13 which fits over the bead and a gasket 14 may be inserted between the bead and flange if desired.

The cover is held or fastened in position by a ring 15 which is of concavo-convex cross section or channel shaped in order to engage with the cover flange and the container bead to draw the cover into closing position. The ends of the ring are slightly offset and flattened as shown at 16 and 17 and one end overlaps the other when in closed position as shown in Fig. 2. The end 16 has an integrally formed transverse loop or projection 18 which fits between the side walls or ears 19 at the end of a closing lever 20. The lever is pivotally mounted on a pin or rivet 21 and extends through the ears and engages with the loop or bearing 18. The lever 20 is also approximately semi-circular in cross section and fits closely over the ring when in closed position.

The opposite end 17 of the ring also has a transverse integrally formed loop or bearing 22 which is engaged by one end of a link 23. This link is preferably formed of wire which is bent to engage with the bearing 22. The opposite ends 24 of the sides of the link are bent inwardly and project through holes 25 in the sides of the lever 20. The lever 20 may be provided with a slot or opening 26 for receiving an eye 27 projecting from the ring whereby the lever may be fastened or sealed in closed position by any suitable kind of seal.

When a cover is to be fastened in position, it is placed on the container and the ring adjusted to fit over the bead and flange, the ends of the ring being spread apart sufficiently to permit the placement of the ring in such position. When the closing lever 20 is swung to the left as shown in Fig. 3, the link 23 will draw the other end of ring to closing position and the lever may be sealed or fastened in closed position in any well known manner. The overlapping of the ends of the ring is a desirable feature as it tends to hold both ends closely in against the cover and prevents the ends from springing out as is otherwise apt to occur.

It is apparent that my improved ring may be readily manufactured and I have found that it can be constructed at a considerably less cost than rings heretofore used for such purposes.

While I have shown the preferred form of my invention, changes may be made in the details of construction and shape of the parts in order to adapt the same to various containers and therefore, I do not wish to be limited to the particular construction shown and described except as specified in the following claim in which I claim:

The combination with a container having a peripheral bead at the top thereof and having a cover coacting with the bead to make a tight closure, of a split contractible channeled ring for fastening the cover to the bead, the ends of the ring being offset and overlapped when in closed position, said ring having a transverse integrally formed bearing adjacent to one end thereof, a lever having outwardly extending ears at one end, a pin engaging with said ears and said bearing, said lever fitting closely over the ring when in closed position, an integrally formed bearing adjacent to the opposite end of the ring, comprising an eye punched outwardly from the central portion of the ring, and a link connecting the lever with the last named bearing, said link being formed of wire having a transverse portion engaging with the eye and having its opposite ends bent inwardly and projecting through holes in the sides of the lever to form a pivotal connection therewith.

HENRY DENBIGH ELLIS.