

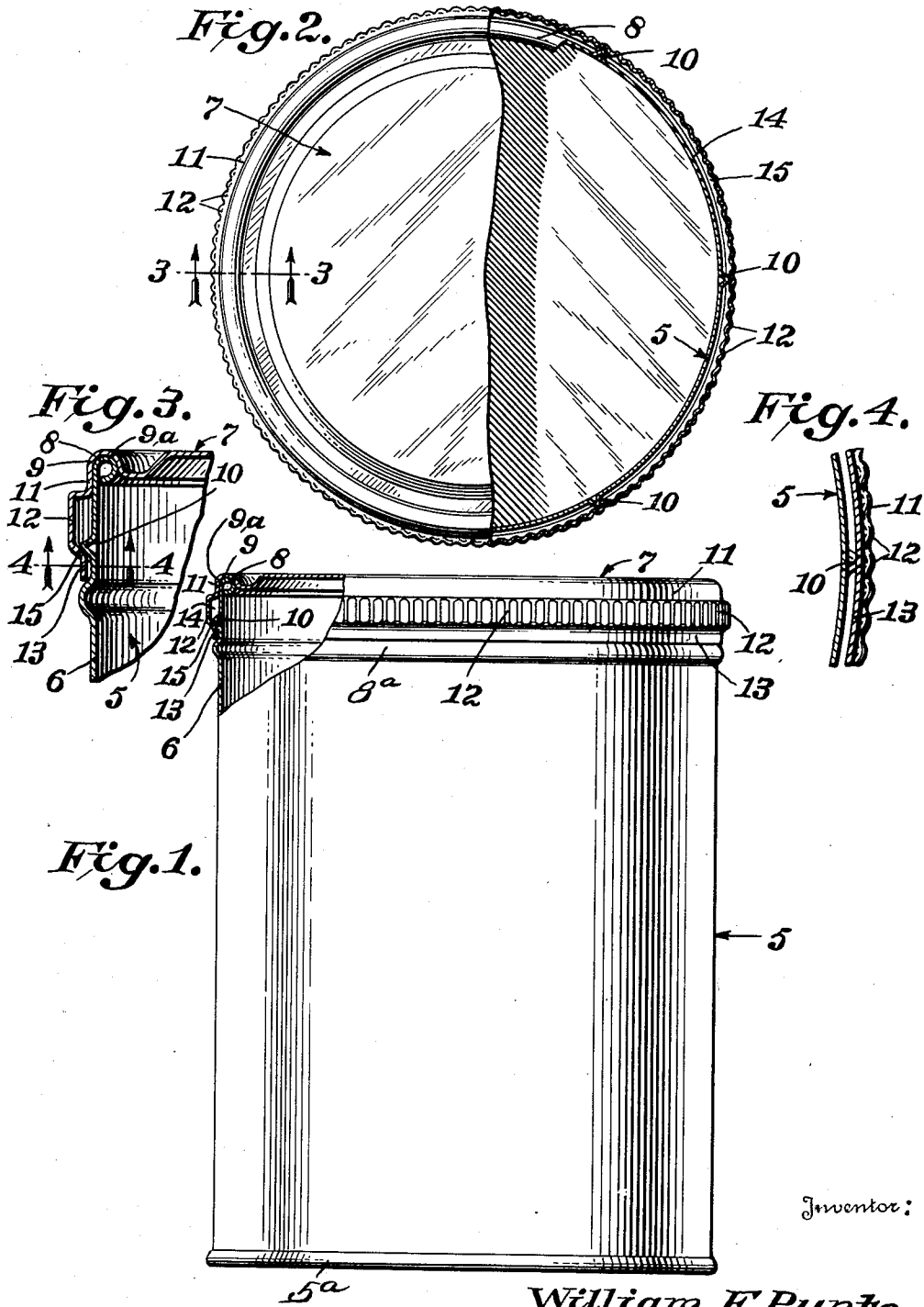
July 6, 1937.

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2,086,510

SLIP COVER CONTAINER

Filed Sept. 21, 1934



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UNITED STATES PATENT OFFICE

2,086,510

SLIP COVER CONTAINER

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Application September 21, 1934, Serial No. 744,998

1 Claim. (Cl. 220—60)

The invention relates to new and useful improvements in metal containers, and more particularly to a metal container having a slip closure therefor.

5 An object of the invention is to provide a container wherein the cover is secured thereto by the snapping of the flange over holding projections on the body wall of the container.

10 A further object of the invention is to provide a container of the above type wherein the body wall and the cover are so constructed as to provide an extended sealing contact therebetween.

15 These and other objects will in part be obvious and will in part be hereinafter more fully disclosed.

Referring to the drawing—

Figure 1 is a view partly in side elevation and partly in section of a container embodying the improvements;

20 Fig. 2 is a view partly in plan and partly in section of the same;

Fig. 3 is an enlarged sectional view taken on the line 3—3 of Fig. 2, and

25 Fig. 4 is a sectional view taken in plan on the line 4—4 of Fig. 3.

The improved container comprises a body portion which is preferably cylindrical. A bottom end is seamed thereto in the usual manner. The upper end of the body portion is closed by an outside slip cover which is held in sealing engagement with said body portion by spaced gripping projections frictionally contacting with an annular recess in the flange of the friction cover. The body wall is rolled or curled inwardly at its upper end to provide a closed strengthening bead, that is, the edge portion is curled until it contacts with the body wall. The body wall is beaded outwardly at a short distance below the upper edge. This provides a very rigid non-flexing wall portion at the open end of the container. Spaced projections are struck outwardly in the body wall between the bead therein and the upper end. The cover is provided with a depending flange dimensioned so as to slip down over the body portion and the flange is provided with an offset portion which is of greater diameter than a circle tangential to the outside face of the projections. The lower edge of the flange is left straight and is inset to a diameter less than the tangential diameter of the outer face of the projections, so that when the cover is forced on, the lower inset portion of the flange will flex and deform to allow this portion of the cover flange to pass by and snap under the projections in the body wall for holding the cover in form gripping contact with

the container body. The cover is also provided with an annular recess directly over the body wall which forms a recess on its inner face dimensioned so as to fit the bead on the body portion and thus forming an extended seal. The inset portion of the flange which forms an annular recess for the locking projections is at a distance from the top of the cover sufficient to draw the annular recess in the top of the cover tightly down upon the bead on the upper end of the body thus forming a tight seal.

Referring to the illustrated embodiment of the invention, the improved container 5 consists of a body portion 6 to which a bottom end 5a is secured. The body portion at its upper end is left open and is closed by a slip cover 7. The body wall at its upper end is curled inwardly so as to form a closed hollow bead 8 and at a short distance below, the body wall is provided with an outwardly curved bead 8a. These beads strengthen the open end of the body portion and form a substantially rigid non-flexing portion. The cover 7 has an annular bead 9 directly over the body wall which forms a recess on its inner face dimensioned so as to fit the bead on the body portion and thus form an extended seal between the cover and the container.

Spaced from the closed bead and on the exterior of the body portion are widely spaced projections 10. The cover is provided with a depending flange 11 having an offset knurled portion 12 and an inset portion 13 which forms a recess 14 in the cover flange and provides a retaining shoulder 15 which is adapted to snap over the projections 10 on the body portion for holding the cover in sealing contact with the container body.

The lower edge of the inset portion 13 of the cover is left perfectly straight so that the flexing is all in the flange of the cover, the wall of the container being non-flexible due to the beads 8 and 8a at the upper edge thereof. The can body does not distort when one projection at a time or when all projections at the same time pass by the retaining shoulder and enter the recess in the cover flange. The only thing that distorts and takes a non-circular shape is the lower edge of the cover flange. Thus it is that when the flange flexes to allow the projections on the body wall to enter the recess in the cover flange, there is a tendency to draw the cover down tightly on its closure seat.

It will be noted in the drawing that the lower edge portion 13 of the cover flange is of slightly greater diameter than the can body. This will

compensate for slight variations of size of the cover in manufacture.

Owing to the firm holding grip of the projections and the extended seal between the cover 5 and the container bead, a container is produced which may be readily opened and closed, and when closed it is practically airtight. This makes a container that is of especial value for ground coffee, which is constantly evolving a gas carry- 10 ing off the volatile constituents giving flavor and aroma to the coffee. With applicant's tight cover this loss of coffee gas is reduced and deterioration prevented.

It is obvious that minor changes in the details 15 of construction and arrangement of the parts may be made without departing from the spirit of the invention as set forth in the appended claim.

20 Having thus described the invention, what I claim as new and desire to secure by Letters Patent, is—

A metal container comprising a body portion having an inwardly curled closed hollow bead 25 at the upper edge thereof, the wall of said body portion having an outwardly projecting bead ad-

jacent but spaced from the closed bead at the upper edge, said body wall between said beads having spaced projections on the exterior thereof, a cover for said body portion having an annular recess disposed above said hollow bead and conforming in cross section thereto so as to make an extended sealing contact therewith, said cover 5 having a depending flange closely fitting the outer face of the body wall in the region of the bead at the upper end thereof provided with an outwardly offset knurled portion, said offset portion being spaced above the lower edge of the flange and dimensioned so as to form a retain- 10 ing shoulder adapted to snap over said projections on the body portion for holding the cover in sealing contact with the container body, said flange being straight at its lower end whereby it will flex to allow the projections on the body wall to pass by the retaining shoulder; said retaining 15 shoulder being inclined outwardly and upwardly and said projections being inclined inwardly and downwardly at their lower sides so that said retaining shoulder tends to draw the cover down 20 tightly into contact with the hollow bead on the container body.

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