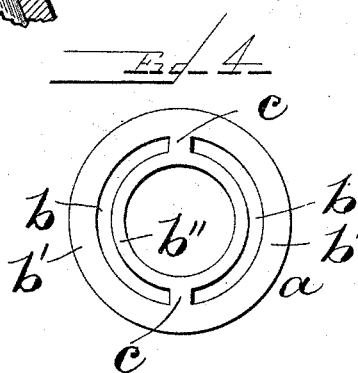
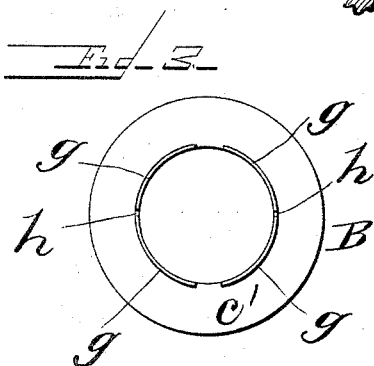
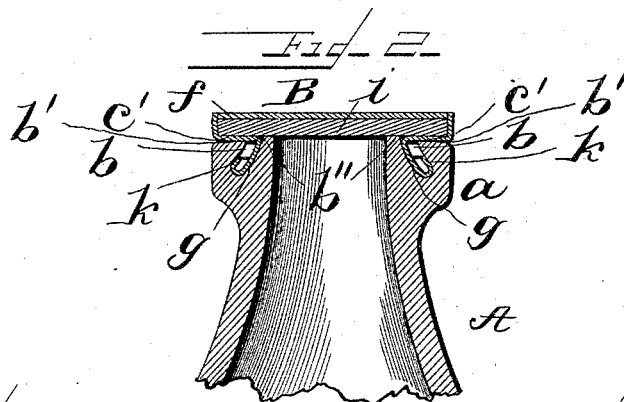
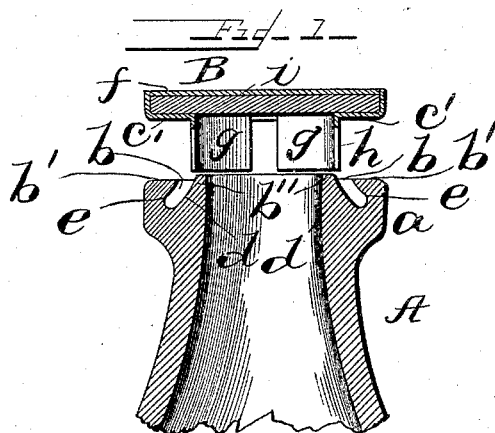


(No Model.)

R. S. WIESENFELD.
PACKING VESSEL OR JAR.

No. 489,773.

Patented Jan. 10, 1893.



Witnesses

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UNITED STATES PATENT OFFICE.

ROBERT S. WIESENFELD, OF BALTIMORE, MARYLAND.

PACKING VESSEL OR JAR.

SPECIFICATION forming part of Letters Patent No. 489,773, dated January 10, 1893.

Application filed April 12, 1892. Serial No. 428,864. (No model.)

To all whom it may concern:

Be it known that I, ROBERT S. WIESENFELD, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Packing Vessels or Jars; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as it appertains to make and use the same.

My present invention relates to packing vessels, such as fruit-jars and has for its object certain improvements in construction which will be fully disclosed in the following specification and claims.

In the accompanying drawings which form part of this specification Figure 1 represents a vertical section of the upper end of a jar showing the sealing-cap or cover in position to be applied to the jar. Fig. 2 a similar view, showing the cap or cover applied to the jar. Fig. 3 an inverted plan view of the cap or cover, and Fig. 4 a top plan view of the jar.

Reference being had to the drawings and the letters thereon, A, indicates the upper end of a fruit jar provided with a head *a* in which is a groove *b b*, which in the present instance does not extend all the way around the head, as shown in Fig. 4, forming abutments *c c* between the ends of the grooves which afford bearing surfaces for the insertion of a flat pointed implement to remove the cap or cover. This groove may however extend around the top of the jar if desired. The inner wall *d* may be curved outward as shown to guide the vertical flange *g* on the inside of the cap or cover B and deflect it outward, thereby giving an initial outward bend or flare to said flange preparatory to the final bend that is formed in said flange; or the wall may be vertical part way down and then curved for the same purpose. The outer wall *e* of said groove is undercut as shown in Figs. 1 and 2 to form an overhanging upper edge to retain the cap or cover by the flange *g* engaging therewith, and the bottom of the groove is curved substantially as shown to insure the return bending of the flange *g* in the groove. Outside of the groove or grooves *b* is an annular seat or rabbet *b'* for the metallic portion *c'* of the under side of the cover B to rest upon, and inside of the groove is an annular projection

b' upon which the packing disk *i* of the cover rests and forms an absolutely tight joint.

B indicates the cap or cover the body portion *f* of which is made of soft sheet metal formed in suitable dies and provided with vertical flanges *g g* which are separated by one or more vertical incisions *h* to facilitate the outward bending of said flanges. Within and partly incased by the portion *f* is a packing disk *i* which may be cork or other analogous material used for such purposes.

To apply the cap, it is placed in the position shown in Fig. 1 and forcibly pressed down upon the outer end of the head of the jar by a machine for the purpose or by means of a block of wood or metal and a blow from a mallet or hammer, which causes the flanges *g* to spread in the groove or grooves *b* and turn up at their outer ends as shown at *k* in Fig. 2, whereby the cap is securely locked in position on the jar with the inner edge of the top pressing against the sealing-disk *i*. To remove the cap, a flat pointed implement is inserted between the cap and the upper edge of the jar on one side and the cap raised sufficiently to free the flange *g* about half way round, when the cap may be readily removed as the remaining portion of the flange will readily free or disengage itself from the wall *e* of the groove.

Having thus fully described my invention, what I claim is

1. A packing vessel having a groove in the end face of its head, in combination with a cap or cover provided with a packing disk and a flexible flange or flanges on its lower surface to engage said groove.

2. A packing vessel having an annular groove in the end face of its head provided with an angular outer wall, in combination with a metallic cap or cover provided with a packing-disk and a flexible flange constructed to enter said groove and impinge against said outer wall.

3. A packing vessel having an annular groove in the end face of its head provided with inwardly inclined walls and a curved bottom, in combination with a cap or cover having a packing-disk, and a flexible flange engaging the walls of said groove.

4. A cover for packing vessels, consisting of a packing disk partly incased in metal, and

provided with a flexible vertical flange on its under side.

5 5. A cover for packing vessels consisting of a packing-disk partly incased in sheet metal, said casing being provided with a vertical flexible flange and an annular bearing surface outside of the flange.

10 6. A packing vessel having a groove in the end face of its head and an annular projecting seat on the inner side of said groove, in combination with a metallic cap or cover having a flexible flange on its under side, and a packing disk within said flange.

7. A packing vessel having a groove in the

end face of its head and annular seats on both 15 sides of said groove, the inner one of which projects beyond the plane of the outer seat, in combination with a cap or cover inclosing a packing disk to engage the inner seat, and provided with a vertical flexible flange, and 20 an annular bearing surface outside the flange to engage the outer seat.

In testimony whereof I affix my signature in presence of two witnesses:

ROBT. S. WIESENFELD.

Witnesses:

D. C. REINOHLE,
LOUIS B. BERNEL.