C. H. NOWACK.

POURING SPOUT.

APPLICATION FILED MAR. 3, 1916.

1,301,868. Patented Apr. 29, 1919.

Fig. 1.

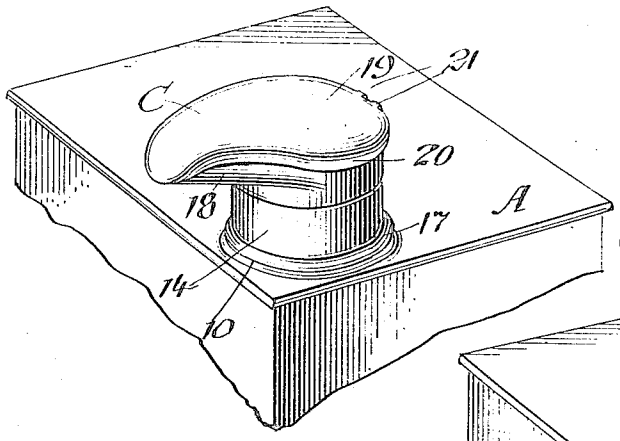
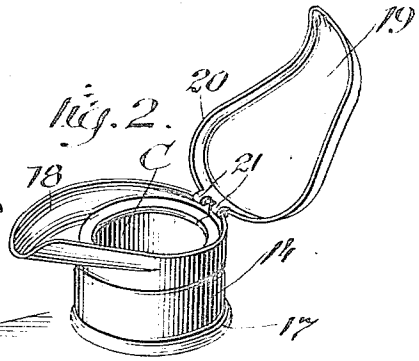


Fig. 2.



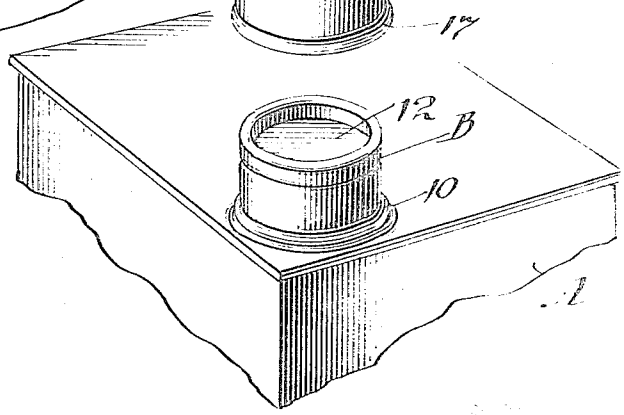


Fig. 3.

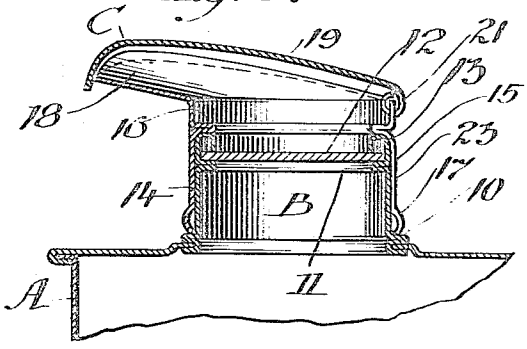
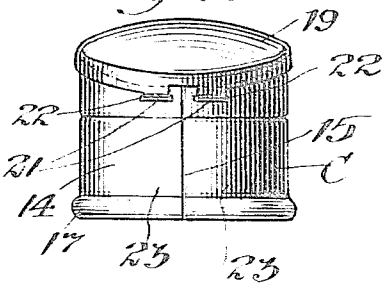


Fig. 4.



Witnesses:

A. Bennett

J. C. Carpenter

Inventor.

Charles H. Nowack

By Munday, Evarts, Adcock & Clarke, Atty's.

UNITED STATES PATENT OFFICE.

CHARLES H. NOWACK, OF OAK PARK, ILLINOIS, ASSIGNOR TO AMERICAN CAN COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

POURING-SPOUT.

1,301,868. Specification of Letters Patent. Patented Apr. 29, 1919.

Application filed March 3, 1916. Serial No. 81,779.

To all whom it may concern:

Be it known that I, CHARLES H. NOWACK, a subject of the Emperor of Austria-Hungary, residing in Oak Park, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Pouring-Spouts, of which the following is a specification.

This invention relates in general to pouring spouts and has more particular reference to pouring spouts provided for use on containers for liquids of various sorts, such as syrups, oils and the like. Liquids of various sorts are packaged for market in containers having nozzles through which the contents may be poured out by the user. Where these liquids are of considerable density, slow pouring of them is difficult without smearing on the container.

It is a principal object of this invention to provide a spout independent and separable from the nozzle, which may be readily attached by the user after opening the nozzle closure so that accurate pouring may result and so that any form of closure may be used for the nozzle without requiring special construction by the presence of a spout.

A further object of the invention is the provision of a spout which may be closed between its periods of use and which may be operated if desired without particular attention of the consumer, enabling him to merely pour the liquid contents out, such pouring automatically opening the spout and closing it when the pouring is finished.

A still further object of the invention is the provision of a spout of this character which may be cheaply manufactured and which when positioned will be firmly held in place without necessitating the provision of any threads upon the nozzle or spout.

Other objects and advantages of the invention will be apparent as it is better understood from the following description when considered in connection with the accompanying drawing illustrating a preferred embodiment thereof.

On the drawing,

Figure 1 is a perspective view of a nozzle provided with a spout embodying my invention;

Fig. 2 is a similar view showing the parts separated;

Fig. 3 is a vertical section through the same; and

Fig. 4 is a rear elevation of said spout.

For the purpose of illustrating my present invention I have shown on the drawing a can or container A of general rectangular form, having an upwardly extending nozzle B at its top about which may fit a spout C, in which my present invention is incorporated.

The container A is joined to the nozzle by a seam 10 of any preferred construction and the nozzle extends upwardly thereabove. Near the upper end the nozzle shown on the drawing is pressed inwardly and bumped to provide a flattened bead 11 upon which is seated a frangible seal of paper or the like 12. The upper edge 13 of the nozzle is curled down upon the frangible seal 12 to hold it in place. Such is the arrangement of the container shown as it is received by the consumer filled with any desired contents. Accompanying the container it is intended to furnish a spout which may be in place or may merely be supplied as a separate article, it being preferably, however, sold by the retail dealer positioned upon the container. This nozzle consists in the present instance of one sheet of metal or the like constituting the body and a second sheet constituting the cover. The sheet constituting the body is formed into a body part or portion 14 of cylindrical shape, slightly smaller in internal diameter than the external diameter of the nozzle B. The sheet is divided vertically along the line 15 to render the spout body yielding and enable it to engage tightly about the nozzle. This body is provided near its upper end with an inwardly extending flattened bead 16 extending circumferentially and adapted to rest upon the curl in the edge 13 of the nozzle, and it may also, if desired, have a second reinforcing bead at or near its bottom. The body extends above the bead 13 and provides a round opening from which the spout proper or lip 18 extends outwardly toward one side, this lip being curved as shown on the drawing to accurately direct the stream of flowing liquid.

The cover 19 is hinged on a line across the division 15 extending vertically through the spout body, this hinge in the present instance

being formed by a pair of lips 21 spaced apart and inserted through two slots 22, one positioned on each side of the division 15, the ends of the lips being curled up over the adjacent edge of the spout body to form the pivotal connection without the use of a pivot pin, although other construction may be resorted to without departing from the spirit of the invention. The lips 21 serve not only to form a pivotal connection but also to retain the ends 23 of the body meeting at the division line together and reinforce the entire structure. The cover 19 is appropriately curved and flanged at 20 to fit down over the opening through the spout body and also over the lip or spout 18. The division line 15 is located preferably diametrically opposite the center of the lip 18, so that when liquid is poured the cover may be lifted sufficiently by the liquid to permit it to pass and when the container is righted to move down into closed position.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing description, and it will be apparent that various changes may be made in the form, construction and arrangement of the parts without departing from the spirit and scope of the invention or sacrificing any of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

I claim:

1. A spout adapted for ready attachment about the nozzle of a container comprising a lip extending outwardly at one side, and a spring flange of sheet metal adapted to engage about said nozzle and having its ends meeting at the rear side of said nozzle opposite to said lip.

2. A spout adapted to fit upon the nozzle of a container comprising a metal sheet having a cylindrical part separated vertically and yieldingly engageable entirely about said nozzle and terminating in its upper end in an outwardly extending spout.

3. A spout adapted to fit upon the nozzle of a container comprising a metal sheet having a cylindrical part separated vertically and yieldingly engageable about said nozzle and terminating in its upper end in an outwardly extending spout, and a cover hinged thereto across the line of vertical separation so as to unite the ends of said cylindrical part.

4. A spout adapted to fit upon the nozzle of a container comprising a metal sheet having a cylindrical part separated vertically and yieldingly engageable about said nozzle and terminating in its upper end in an outwardly extending spout, and a cover having a spout-inclosing lip 20 and hinged at the division of said sheet.

5. A spout adapted to fit upon the nozzle of a container comprising a body divided vertically and yieldably engageable with said nozzle, and a cover hinged to said body on each side of the line of division so as to unite the divided ends of said body.

6. A spout adapted to fit upon the nozzle of a container comprising a yielding body adapted to fit over said nozzle and having an inwardly extending bead engageable with the top of said nozzle and having an outwardly extending spout above said bead.

7. In a container the combination of a pouring nozzle thereon, a laterally extending pouring spout having a cylindrical body encircling said nozzle, said body being vertically divided, and a cover hinged to said body and having a flange 20 which incloses and confines the two sides of the said divided body.

8. The combination of a container having a pouring nozzle, and a spout separate from and attachable at will to the said nozzle, said spout consisting of sheet metal having its upper part shaped to form an outwardly extending spout portion, and having its lower portion shaped to form a divided resilient neck adapted to slide over and fit around said nozzle, said neck being formed with an inwardly bent stiffening bead 16.

9. The combination of a container having a pouring nozzle, and a spout separate from and attachable at will to the said nozzle, said spout consisting of sheet metal having its upper part shaped to form an upwardly and outwardly extending spout portion, and having its lower portion shaped to form a cylindrical resilient and expansible neck adapted to clasp the nozzle, said neck being divided at the rear side opposite to said spout portion.

10. The combination of a container having a pouring nozzle, and a spout separate from and attachable at will to the said nozzle, said spout consisting of a single piece of sheet metal having its upper part shaped to form an upwardly and outwardly extending spout portion, and having its lower portion shaped to form a cylindrical resilient and expansible neck adapted to clasp the nozzle, said neck being divided at the rear side opposite to said spout portion.

11. The combination of a container having a pouring nozzle, and a spout separate from and attachable at will to the said nozzle, said spout consisting of a single piece of sheet metal having its upper part shaped to form an upwardly and outwardly extending spout portion, and having its lower portion shaped to form a cylindrical resilient and expansible neck adapted to clasp the nozzle, and having its intermediate part bent inward in the form of a double flange adapted to rest on the top of the nozzle, said neck being divided at the rear side opposite to said spout portion.

12. A spout separate from and attachable

at will to the nozzles of containers, consisting of a single piece of sheet metal having its upper part shaped to form an upwardly and outwardly extending spout portion, and having its lower portion shaped to form a cylindrical resilient and expansible neck adapted to clasp the nozzle of a container, and having its intermediate part bent inward in the form of a double flange adapted to rest on the top of the nozzle, said neck being divided at the rear side opposite to said spout portion.

In testimony whereof, I have hereunto set my hand in the presence of two subscribing witnesses.

CHARLES H. NOWACK.

Witnesses:
J. C. CARPENTER,
ESTHER ABRAMS.