Dec. 18, 1923. 1,478,035

J. M. HOTHERSALL

POURING SPOUT CONTAINER

Filed Sept. 11, 1922

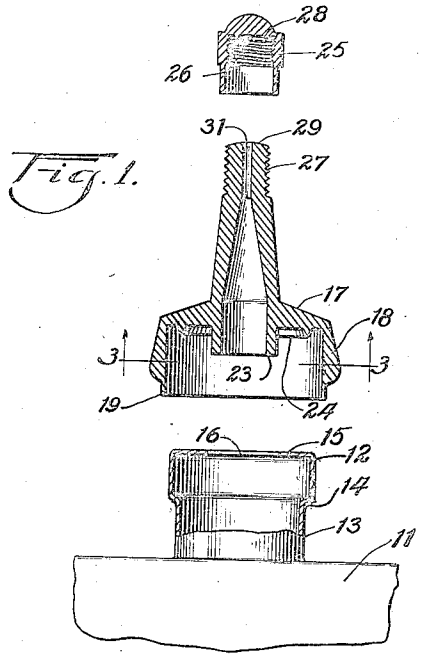


Fig. 1.

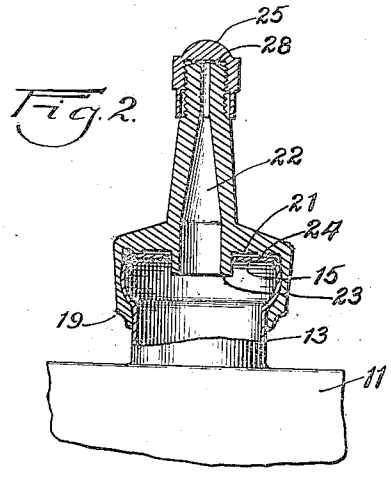


Fig. 2.

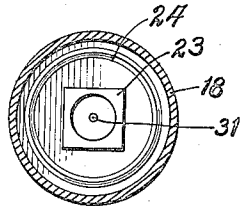


Fig. 3.

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UNITED STATES PATENT OFFICE.

JOHN M. HOTHERSALL, OF BROOKLYN, NEW YORK.

POURING-SPOUT CONTAINER.

Application filed September 11, 1922. Serial No. 587,281.

To all whom it may concern:

Be it known that I, JOHN M. HOTHERSALL, a citizen of the United States, residing in Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Pouring-Spout Containers, of which the following is a specification.

My present invention relates to containers which are adapted to hold oil and like material and which are provided with a pouring spout which is secured upon a portion of the container formed for this purpose.

A principal object of the invention is the provision of a pouring spout container of this character in which a tight seal is obtained between the spout and the can without the use of a gasket, which it has previously been found necessary to employ.

A further object of the invention is the provision of a pouring spout container in which a removable cap placed upon the upper end of the spout is formed to provide a tight seal when in closed position, this seal being also provided without the use of a separate gasket.

Another object of the invention is the provision in a container of this character of a spout and cap therefor which may be readily positioned and which are arranged in sealing relationship by simple assembling operations.

Other objects and advantages of the invention will be apparent as it is better understood from the following description, which, taken in connection with the accompanying drawings, discloses a preferred embodiment thereof.

Referring to the drawings,

Figure 1 is a sectional view of a container nozzle, spout and cap in which my invention is embodied, the parts being shown in separated relationship;

Fig. 2 is a similar view showing the parts in assembled relationship; and

Fig. 3 is a bottom plan view of a spout.

Upon the drawings, I have shown as an exemplification of my invention a container body 11, having a nozzle 12 extending from an end thereof, said nozzle comprising a neck part 13, an outwardly extending shoulder 14, and a top wall 15 extending inwardly at a distance above said shoulder and provided with a central outlet aperture 16. A spout 17 is adapted to be telescopically assembled upon said nozzle and is provided with a depending flange 18 terminating in a reduced end portion 19, which is adapted to be bent, or hooked, to conform to the profile of the shoulder 14, as indicated in Fig. 2, it being understood that this method of attachment draws the spout firmly down upon the nozzle to the extent permitted by the formation of the spout flange.

It has heretofore been customary to provide a sealing gasket between the top wall 15 and the portion 21 of the spout, which is positioned above said top wall. It will be observed that the spout is provided with an outlet passage 22, the wall part 23 of which is preferably adapted to extend through the aperture 16 and the gasket referred to has been employed to prevent escape of the materials except through this aperture.

In containers of this character, the spout is frequently formed of lead and, in accordance with my invention I provide an annular ridge 24 in the shoulder portion 21 of the spout, which, upon the application of pressure to clamp the spout in place, is somewhat flattened out against the sheet metal top 15 and caused to form a tight metallic seal. In this manner, the use of a gasket may be dispensed with and the cost of this part and the operation of positioning it eliminated. The ridge 24 is sufficiently soft to conform to any inequalities in the opposed nozzle and spout surfaces, and serves to provide a most effective seal, in many respects superior to that provided by the separate sealing disk of felt, or other material, heretofore employed.

A removable cap 25 is provided to close the upper end of the spout and is internally screw-threaded at 26 to engage threads 27 provided at the end of the spout. In accordance with my invention, I also provide a sealing ridge 28, similar to the ridge 24 on the spout, and adapted to bear against the end 29 of said spout surrounding the outlet opening 31.

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 all of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

I claim:

1. A container, comprising a body having a nozzle in an end thereof, said nozzle having a projecting horizontal shoulder above its base and an inwardly extending flange above said shoulder, and a spout adapted to fit upon said nozzle and having a flange engaging beneath said shoulder, said spout having a central outlet passage and having a ring of soft metal disposed around said passage and adapted to be forced into contact with the inwardly extending flange on said nozzle when said spout is positioned upon the nozzle.

2. A container having a nozzle in an end thereof, and a spout tightly secured to said nozzle, and having a ridge of soft metal forced into sealing contact with a part of said nozzle.

3. A container having a nozzle extending therefrom, and a spout secured upon said nozzle and having an outlet passage therethrough, said spout having a sealing ridge of soft metal about said passage and forced into sealing engagement with said nozzle.

4. A container having a nozzle extending from an end thereof, and a spout secured on said nozzle and having an integral sealing ridge of soft material forced against said nozzle in assembling.

5. A container having an outlet part and a closure tightly secured upon said part, and having an integral sealing ridge forced into sealing engagement with said part.

6. A container, comprising in combination a body having an outlet nozzle protruding therefrom, and a spout tightly positioned upon said nozzle, one of said parts having a sealing ridge of soft material forced into sealing engagement with the other.

7. A container, having a nozzle extending therefrom and provided with an outlet aperture, a spout secured upon said nozzle and having an integral ridge of soft material forced into sealing engagement therewith, and a cap adapted to be removably secured upon the end of said spout and having a ridge of soft material adapted to be forced into sealing contact with the material of the spout about the outlet passage.

8. A container, comprising a body having an outlet nozzle protruding therefrom, said nozzle having a horizontal shoulder above its base, a top wall above said shoulder having an outlet aperture therein, and a spout adapted to fit upon said nozzle and having a flange adapted to be crimped beneath said shoulder, said spout having an outlet passage extending therethrough and having a horizontal shoulder beyond said passage, said shoulder being provided with an integral encircling ridge of soft material adapted to be forced into sealing engagement with said nozzle top when the spout and nozzle are assembled.

9. A container, comprising a body having an outlet nozzle protruding therefrom, said nozzle having a horizontal shoulder above its base, a top wall above said shoulder having an outlet aperture therein, a spout adapted to fit upon said nozzle and having a flange adapted to be crimped beneath said shoulder, said spout having an outlet passage extending therethrough and having a horizontal shoulder beyond said passage, said shoulder being provided with an integral encircling ridge of soft material adapted to be forced into sealing engagement with said nozzle top when the spout and nozzle are assembled, and a cap adapted to be screwed upon the upper end of the spout and having an integral sealing ridge forced into engagement with the material of the spout about the outlet passage.

JOHN M. HOTHERSALL.