A. ST. J. WHITNEY.

SPOUTED CONTAINER.

APPLICATION FILED MAR. 28, 1914.

1,137,248. Patented Apr. 27, 1915.

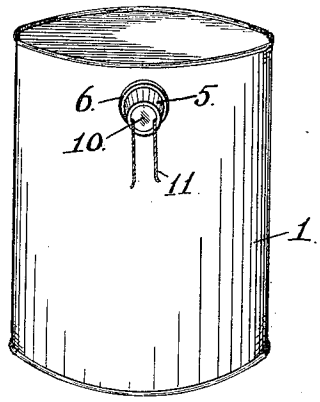


Fig. 1.

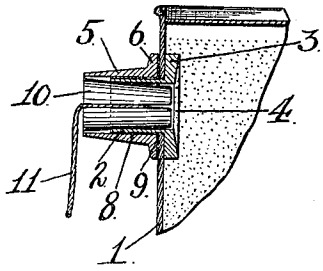


Fig. 2.

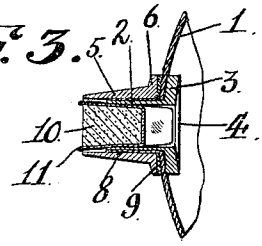


Fig. 3.

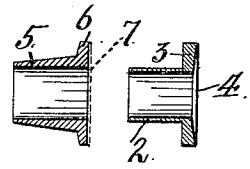


Fig. 4.

Fig. 5.

WITNESSES:
Elbert R. Brouwer
S. Constine.

INVENTOR.
Arthur St. John Whitney
BY
Wm. F. Booth
ATTORNEY.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ARTHUR ST. JOHN WHITNEY, OF SAN FRANCISCO, CALIFORNIA.

SPOUTED CONTAINER.

1,137,248. Specification of Letters Patent. Patented Apr. 27, 1915.

Application filed March 28, 1914. Serial No. 828,046.

To all whom it may concern:

Be it known that I, ARTHUR ST. JOHN WHITNEY, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented certain new and useful Improvements in Spouted Containers, of which the following is a specification.

My invention relates to the class of containers provided with spouts.

My invention is applicable to cans, packages, containers and other vessels made of metal, paper, or other material, for inclosing various commodities. I have, in practice, found it useful in connection with containers for fluent solids, such, for example, as salt.

The object of my invention is to provide a spouted container of simple, serviceable, efficient, strong and economical construction, and to this end my invention consists in the novel spouted-container which I shall now fully describe, by reference to the accompanying drawings, in which—

Figure 1 is a perspective view of my spouted-container. Fig. 2 is a fragmentary vertical sectional view, enlarged. Fig. 3 is a fragmentary horizontal sectional view, enlarged. Fig. 4 is a longitudinal sectional view of the outer member of the spout. Fig. 5 is a similar view of the inner member of the spout.

1 is the container. This may be of any suitable material and shape. It is here shown as a round can. Its spout may be fitted to it in any suitable position. The best location is, however, that here shown, namely, in the upper portion of its side or circumference.

The spout comprises an inner member and an outer member. The inner member is a hollow core 2, provided with a flange 3 on one end constituting a disk-like head, said flange having its inner face beveled or concaved as shown at 4, to form a funnel-like surface leading to the hollow of the member. The outer member is a hollow sleeve 5 adapted to fit the core 2. The outer member is provided with a flange 6 on one end. These two members of the spout may be made of any suitable material and of any suitable cross section. In practice, I prefer, for economical constructive reasons, to make them of wood and of circular section.

In applying the spout to the container, the operator, while the head of the can is still open, passes the inner member 2 from within outwardly through a hole previously made in the can, until the flange 3 of said member fits up closely against the inner surface of the can wall, surrounding the hole. Then, he dips the flanged end of the outer member 5 in an adhesive bath, such, for example, as thick glue, so that, as is indicated in Fig. 4, by the dotted line at 7, a thin film of glue attaches itself to the face of the flange 6 and crosses the opening of said outer member, and thereupon while holding the flange 3 of the inner member tightly against the inner wall of the can, he now fits the outer member upon the inner member, until the flange 6 of said outer member is pressed home against the outer surface of the can wall, in which position the outer end of the outer member projects beyond the outer end of the inner member. In this operation the film of glue which had crossed the opening of the outer member, is squeezed between the adjacent surfaces of the two members, in a more or less complete film, as is indicated by 8 in Figs. 2 and 3, exaggerated somewhat; and the film of glue on the face of the flange 6 serves as is shown at 9 in said figures, to cause said flange to adhere to the can wall. A cork 10, provided with an extracting string 11, is then fitted in the spout in engagement with the core 2. By thus having the cork engage the inner member, the extraction of the cork will not tend to loosen the outer member from the body as might otherwise be the case.

It will now be seen that the wall of the can is clamped rigidly between the two flanges 3 and 6, which form a tight joint therewith; that the spout is able to resist pressure either from within or from without; that the projection of the outer member beyond the inner member, effectually protects the inner member from any pressure tending to force it inwardly; that because of the concaved or beveled inner face of the flange 3, making a kind of funnel of it, the contents of the can will flow freely through the spout and be discharged easily; and that by reason of the location of the spout in the side of the can near its end, the entire contents may be discharged without waste.

I claim:—

1. A container for salt and the like provided with a discharge opening, and a spout associated with said opening provided with

a hollow fastening part passed through the opening and formed with a disk-like head engaging the inner surface of the container wall to prevent outward displacement of said part, the exposed inner surface of said disk being beveled from the bore of said hollow part laterally toward the periphery of the disk to provide an enlarged funnel leading to said bore, substantially as described.

2. A container of the character described provided with a discharge opening, and a two-part spout associated with said opening and comprising interfitting hollow parts flanged at adjacent ends to receive therebetween the wall of the container surrounding the opening therein, means for securing the parts together, and to said wall, and a stopper engaging the inner hollow part of the spout and detachable through the end thereof, substantially as described.

3. A container of the character described provided with a discharge opening, and a two-part spout associated with said opening and comprising interfitting hollow parts flanged at adjacent ends to receive therebetween the wall of the container surrounding the opening therein, means for securing the parts together and to said wall, and a detachable stopper removable from the end of the spout adapted to close the opening at said end of the spout when not in use, substantially as described.

4. A container of the character described provided with a discharge opening and a two part spout associated with said opening and comprising interfitting hollow parts flanged at adjacent ends to receive therebetween the wall of the container surrounding the opening therein, means for securing the parts together and to said wall, said last mentioned means comprising an adhesive substance interposed between the inner end of the outer part of the spout and the outer wall of the container and also between the adjacent surfaces of the interfitting parts of the spout, substantially as described.

5. A container of the character described provided with a discharge opening, and a two-part spout associated with said opening and comprising interfitting hollow parts flanged at adjacent ends to receive therebetween the wall of the container surrounding the opening therein, means for securing the parts together and to said wall, said means constituting a direct fastening between the wall of the container and the outer part of the spout, and a direct fastening between the parts of the spout, substantially as described.

6. A container of the character described provided with a discharge opening, and a two-part spout associated with said opening and comprising interfitting hollow parts, flanges at adjacent ends to receive therebetween the wall of the container surrounding the opening therein, means for securing the parts together and to said wall, the interfitting parts of the spout having continuous smooth walls throughout their length and opening outwardly at the same end, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ARTHUR ST. JOHN WHITNEY.

Witnesses:
WM. F. BOOTH,
D. B. RICHARDS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."