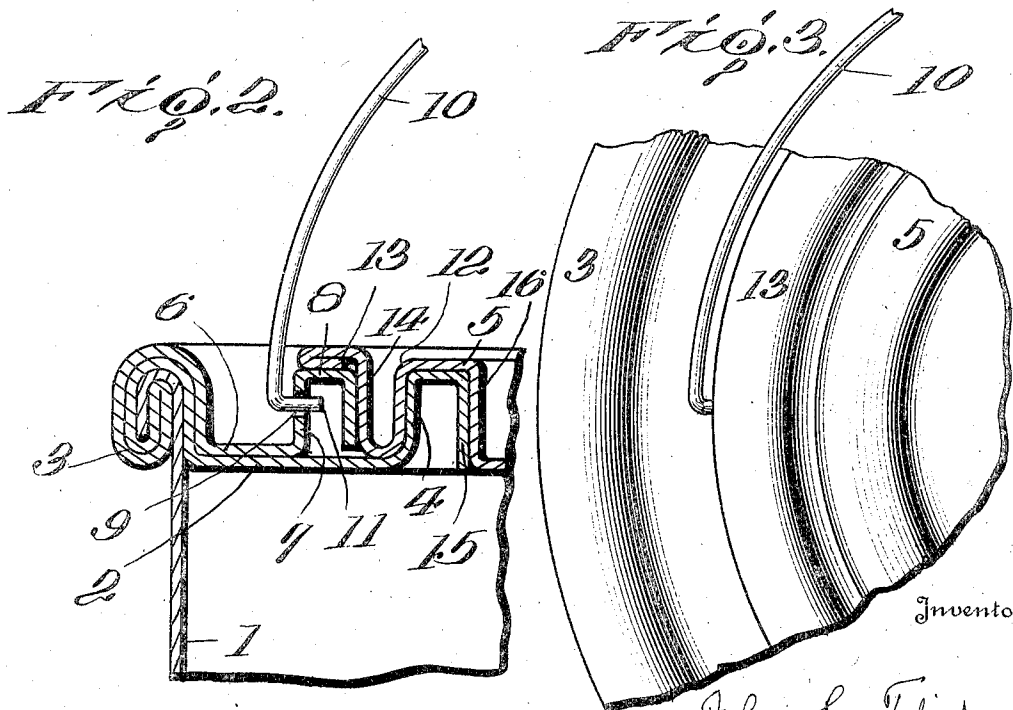
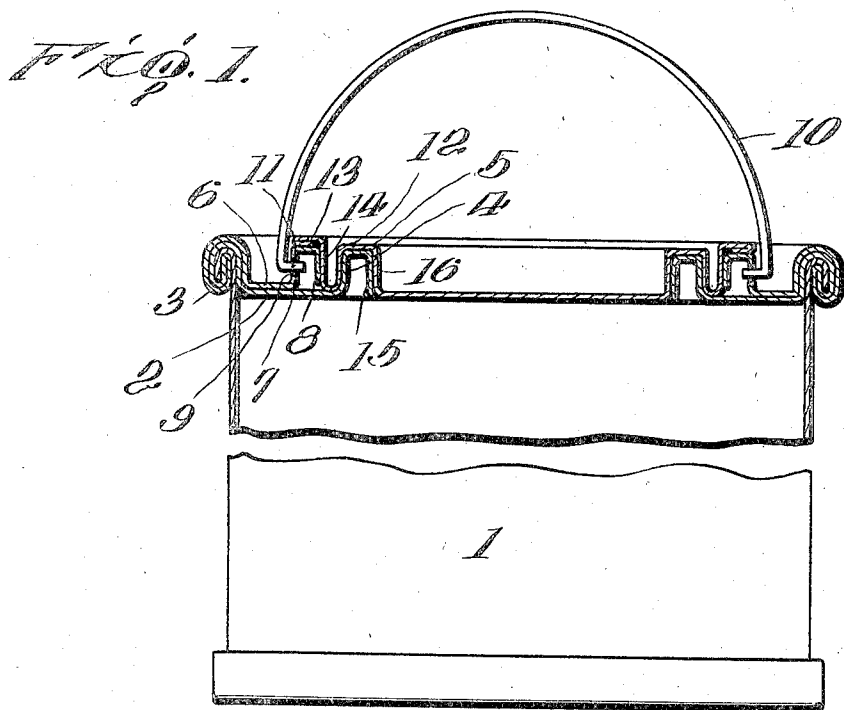


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J. C. TALIAFERRO
FRICTION TOP CONTAINER

Filed Jan. 5, 1925



Inventor

By

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UNITED STATES PATENT OFFICE.

JOHN C. TALIAFERRO, OF BALTIMORE, MARYLAND, ASSIGNOR TO CONTINENTAL CAN COMPANY, INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

FRICTION TOP CONTAINER.

Application filed January 5, 1925. Serial No. 571.

The invention relates to new and useful improvements in sheet metal containers, and more particularly to a container wherein the cover is held on the body portion of the container by friction.

An object of the invention is to provide a container of the above type wherein the cover is held in place on the container body by a plurality of radially spaced friction surfaces, and wherein certain of said friction surfaces are carried by the auxiliary top portion, which auxiliary top portion is rolled into a double seam joining the main top portion to the side wall of the container body.

A further object of the invention is to provide a container of the above type, wherein said auxiliary top portion carrying the friction wall is also bent so as to provide a support for the bail for the container, which support is so spaced from the outer wall of the container, and disposed relative thereto, that the bail may be turned down into the space between the friction wall on the auxiliary top and the side wall of the container, so as to be completely housed within said space, thereby permitting containers to be stacked one on the other for storage or shipment.

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

In the drawings which show by way of illustration one embodiment of the invention—

Figure 1 is a central sectional view of a portion of a container embodying the invention;

Fig. 2 is an enlarged detail more clearly illustrating the invention, and

Fig. 3 is a plan of a portion of the top of the container showing how the bail may be turned down and housed within a recess formed in the top of the container.

In carrying out the invention, a metal container is provided which consists of a container body to which is attached by a seam formed in the metal, an apertured container top. The inner edge of this top is bent upwardly, thence inwardly and thence downwardly, thus forming two spaced annular friction walls. Associated with this main top portion is an auxiliary top portion which is, at the outer edge thereof, rolled into a small seam which

joins the main top portion to the container body. This auxiliary top portion also has the friction wall which is radially spaced from the friction walls on the main portion of the container top, and which is located near the edge of the container body. The metal in the auxiliary top is bent upwardly, thence inwardly and thence downwardly, to form this friction wall. The upwardly bent portion is spaced at some distance from the outer parts of the auxiliary section, and the end seam joining the same to the container body, and this provides a space into which the bail may be turned for housing the bail. Said bail projects into the perforation formed in the raised portion of the auxiliary top.

Referring more in detail to the drawings, the sheet metal container comprises a body portion 1 which is preferably cylindrical and made in the usual way. Said cylindrical body portion has the usual bottom end attached thereto by a double seam. It also has an apertured top portion 2 which will be referred to as the main top portion. This apertured top portion sets down into the body portion 1 of the container and is provided with an upwardly extending portion 3 which is formed with a flange adapted to be rolled with the flange on the side wall of the container body 1 into a double seam. Said main top portion is formed with an aperture, and the metal in said top portion adjacent the aperture is bent upwardly at 4 to form a friction wall, thence inwardly and finally downwardly at 5, to form a second friction wall, so that said top portion has two spaced, substantially parallel friction walls 4 and 5.

Associated with this main top portion is an auxiliary top portion 6 which likewise has a central aperture, and the metal adjacent thereto is bent upwardly at 7, thence inwardly and finally downwardly at 8, so as to form a friction wall 8 radially spaced from the friction wall 4. The outer portion of this auxiliary top 6 is rolled into a double seam joining the main portion of the top to the body of the container.

It will be noted from the drawings that there are three spaced friction walls, 8, 4 and 5 formed in the top portions of the container, and these walls are radially spaced. Furthermore, the wall 8 is separately mounted from the walls 4 and 5 and

can therefore, yield independently of either of the walls 4 or 5. The raised portion 7 is perforated at 9, and is provided with two perforations diametrically opposed to each other, so that a bail 10 with its ends 11 bent at right angles to the body portion of the bail may be inserted in these perforations and thereby the portion 7 of the auxiliary top becomes a support for the bail whereby the container may be carried. This wall 7 is spaced from the wall 3, and this space forms a housing for the bail, so that the bail may be turned into said space and housed thereby. It will be noted that the perforation 7 is at some distance below the upper edge of the friction wall 8, and the upper edge of the seam joining the top of the container to the body portion thereof, so that when the bail is turned down, it will be completely housed within said space, and containers with their bails folded or turned down may be stacked one on another.

The container body is closed by a cover 12. The cover has its outer edge folded or bent back as at 13 to give strength to the edge of the cover, and thereby said cover may be pried off from the top by engaging a tool underneath said bent or reinforced edge. Said cover is formed with an annular depression which forms the outer friction wall 14 and the inner friction wall 15. The friction wall 14 is adapted to engage the friction wall 8 on the auxiliary top of the container. The friction wall 15 engages the friction wall 4 on the main top portion of the container. Said cover is also formed with a central depression, which forms a third friction wall 16 which is adapted to engage the friction wall 5 on the main portion of the container top. The container body is, therefore, provided with a triple friction hold for the cover. To this extent, the container is similar to that shown in my prior Patent No. 1,128,076, granted February 9, 1915.

The present structure, however, contains two important features which are not present in the prior patent. One of these is the auxiliary top which provides a separate support for the outer friction wall, so that said friction wall may yield independently of the friction wall on the main portion of the top. The other feature is the vertical wall carried by this auxiliary top parallel with the friction wall thereon and parallel with the outer edge of the container body which is perforated and forms a support for the bail, and which is likewise spaced from the edge of the container body, and thereby forms a housing for the bail when turned to horizontal position.

This auxiliary top contains not only the friction wall for gripping the cover to hold it on, but it also contains the supporting ear for the bail, which supporting ear is

rolled into a double seam joining the top and the container body, so that the bail, in a sense, supports the weight within the container body through the strong connection which seams the top to the container body. Therefore, this container is especially adapted for heavy material, such as paint or the like.

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

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

1. A sheet metal container comprising a cylindrical body portion, a main top portion connected therewith and having a central opening, said top portion having a substantially vertical friction wall formed therein, an auxiliary top portion overlying the main top portion and connected to the body portion of the container, said auxiliary top portion having a substantially vertical friction wall formed therein, and a cover having friction walls adapted to cooperate respectively with the friction walls on the auxiliary and main top portions of the container.

2. A sheet metal container comprising a cylindrical body portion, a main top portion connected therewith, and having a central opening, said top portion having a substantially vertical friction wall formed therein, an auxiliary top portion overlying the main top portion and connected to the body portion of the container, said auxiliary top portion having a substantially vertical friction wall formed therein, and a cover having friction walls adapted to cooperate respectively with the friction walls on the auxiliary and main top portions of the container, said auxiliary top portion being raised to form a substantially vertical wall located outside of the friction wall formed therein and provided with oppositely disposed perforations, a bail having its ends bent to engage said perforations, said bail being semi-circular and adapted to be turned down and housed in the space between the raised portion of said auxiliary top and the outer wall of the container body.

3. A sheet metal container comprising a cylindrical body portion, a main top portion having a central opening and an auxiliary top portion overlying the main top portion, the outer edges of said top portions being rolled into a common double seam with the side wall of the container body, said auxiliary top having a raised vertical portion spaced from said seam, said raised portion having oppositely disposed perforations, a semi-circular bail having its ends bent and engaging said perforations whereby said

bail may be turned downwardly and housed within the space between the raised portion of the auxiliary top and the outer wall of the container body.

- 5 4. A sheet metal container comprising a cylindrical body portion, a main top portion having a central opening and an auxiliary top portion overlying the main top portion, the outer edges of said top portions being
10 rolled into a common double seam with the side wall of the container body, said auxiliary top having a raised portion spaced from said seam, said raised portion having oppositely disposed perforations, a semi-circular
15 bail having its ends bent and engaging said perforations whereby said bail may be turned downwardly and housed within the space between the raised portion of the
20 container body, said main portion having a friction wall surrounding the central aperture therein, and a cover having a friction wall adapted to engage the friction wall on the main top portion.
- 25 5. A sheet metal container comprising a cylindrical body portion, a main top portion having radially spaced friction surfaces, an auxiliary top portion having a friction surface lying outside of the first-named friction
30 surfaces, a cover having a central depression forming a friction wall adapted to engage

the inner friction wall on the main body portion and having an annular depression formed therein outside of the central depressed portion, said annular depressed portion forming two friction walls spaced from each other and engaging respectively the friction wall on the main top portion and the friction wall on the auxiliary portion. 35

6. A sheet metal container comprising a 40 cylindrical body portion, a main top portion having radially spaced friction surfaces, an auxiliary top portion having a friction surface lying outside of the first-named friction surfaces, a cover having a central depression 45 forming a friction wall adapted to engage the inner friction wall on the main body portion and having an annular depression formed therein outside of the central depressed portion, said annular depressed 50 portion forming two friction walls spaced from each other and engaging respectively the friction wall on the main top portion and the friction wall on the auxiliary portion, said auxiliary portion being provided 55 with means for supporting a bail, and a bail attached to said supporting means and adapted to fold down into substantially the plane of said auxiliary top portion.

In testimony whereof, I affix my signature.

JOHN C. TALIAFERRO.