

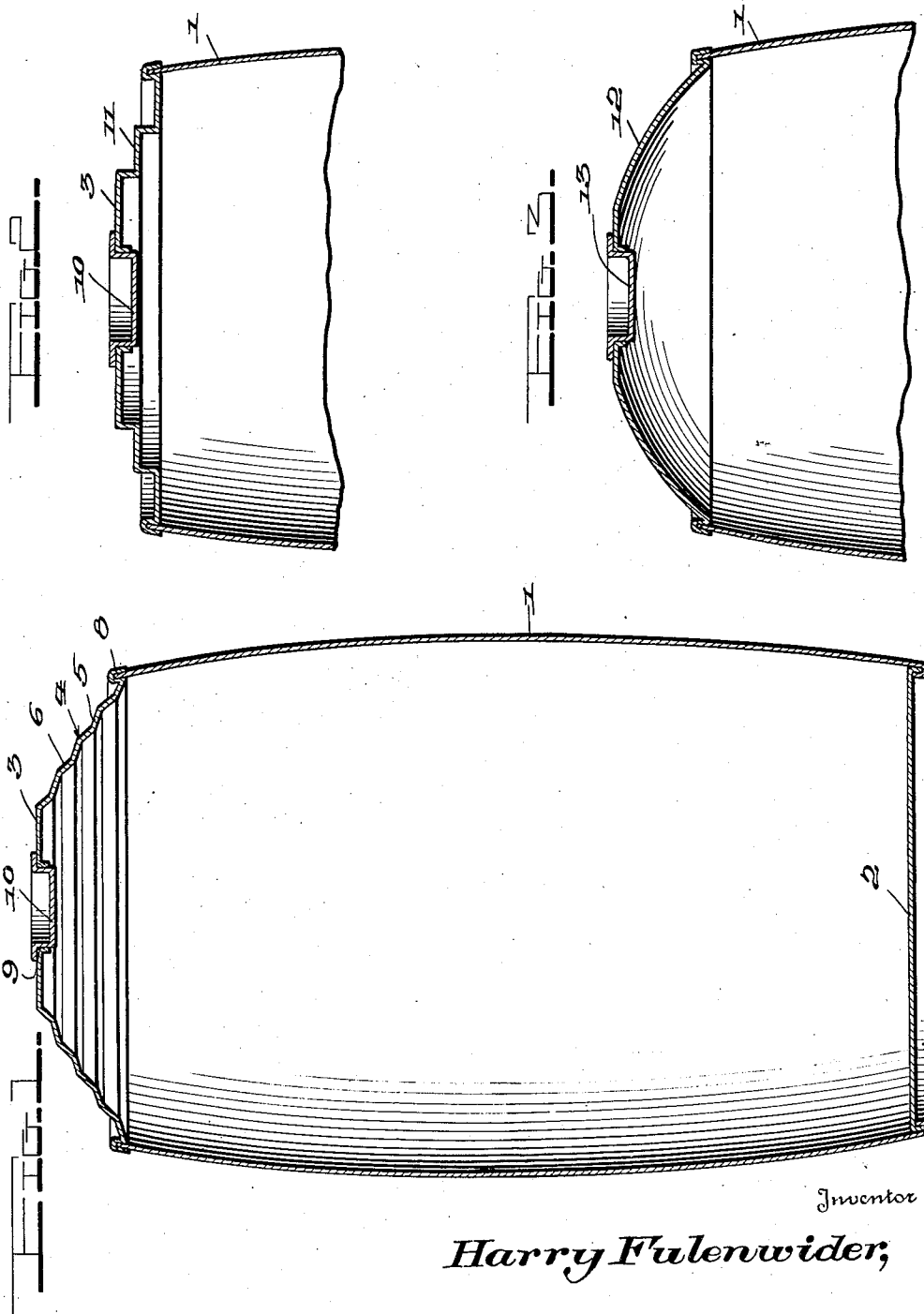
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METAL BARREL HEAD

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METAL BARREL HEAD

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2 Claims. (Cl. 220—24)

This invention relates to improvements in metal barrels, and more particularly to head constructions therefor.

An object of the invention is to provide a metal head for a metal barrel, which will be arranged in a series of concentrically disposed angular steps.

Another object of the invention is to provide a metal head for a metal barrel comprising a series of concentrically arranged angularly disposed steps having the tread and riser portions of each step in parallel relation to the tread and riser portions of the successive steps.

A further object of the invention is to provide a metal head for a metal barrel which will be formed with a plurality of concentrically arranged angularly disposed steps, which permit the collapsing of the head at points where the several angles intersect.

A still further object of the invention is to provide an improved metal barrel head which will be quite inexpensive to manufacture and which will be highly efficient in use.

Other objects will appear as the description proceeds.

In the accompanying drawing which forms a part of my application,

Figure 1 is a vertical sectional view through a metal barrel and head, showing my preferred embodiment of the invention;

Figure 2 is a vertical sectional view through a portion of a barrel showing a modified form of metal head, and

Figure 3 is a still further modified form of metal head.

Like characters of reference are used throughout the following specification and the accompanying drawing to designate corresponding parts.

In carrying out my invention, I provide a metal barrel having straight or rounded sides 1, an end 2, and a head 3.

As illustrated in Figure 1 of the drawing, the barrel 1 has a flat disk end or bottom, 2 and a substantially dome-shaped head 3. The head 3 is formed of a single sheet of metal and is provided with a series of concentric zones 4 of consecutively diminishing diameter beginning at the outer periphery, each of said zones having tread portions 5 and riser portions 6. Each zone 4 is provided between it and its adjacent zone with a definite preformed circular line of flexure to promote bending when the top of the dome is depressed. A joint 8 is provided for the outer peripheral edge of the head 3 where it joins the open end of the barrel body 1. The central or apex portion of the head 3 is formed with an opening 9, in which a removable friction closure 10 may be received. These heads are intended to be used in barrels where a contractible liquid, such as

rosin, is to be shipped. The heated rosin or liquid is filled into the barrel to a point well up in the head, and after it has cooled and contracted, it will be found that the level of the rosin is even with the top of the barrel where it joins the side of the barrel. In other words, the barrel will be full, instead of several inches below the top. The head of the barrel will then be knocked or forced down along the lines of flexure, until it is substantially horizontal across the top of the barrel, the bending or flexing of the head being along the preformed line of flexure for each zone.

The modified form of head shown in Figure 2 differs from that shown in Figure 1, in that the steps 11 are arranged at right angles to each other, instead of being arranged at acute angles as in Figure 1.

In Figure 3, I have illustrated the broad idea of a dome-shaped head 12 having a rounded contour with no steps. There could be no collapsing of these heads, but the same could be nested together for shipment. A cap 13 would be provided for the head 12, and would be frictionally held in place.

It will be apparent that many minor changes in detail of construction may be resorted to without departure from the spirit of the invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is:

1. A dome-shaped metallic barrel head designed for seaming to a cylindrical barrel body, the top of the dome having a filling opening therein, a closure for said opening, said dome being formed with a plurality of concentric zones of consecutively diminishing diameter beginning at the outer periphery, each zone meeting the adjacent zone to form an angle having an apex, and said apex constituting a line of flexure to promote bending when the top of the dome is depressed.

2. A dome-shape metallic barrel head designed for seaming to a cylindrical barrel body, the top of the dome having a filling opening therein, a closure for said opening, said dome being formed with a plurality of concentric zones of consecutively diminishing diameter beginning at the outer periphery, each zone meeting the adjacent zone to form an obtuse angle having an apex, and said apex constituting a line of flexure to promote bending when the top of the dome is depressed.

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