Feb. 16, 1937. C. P. REIS 2,071,219

CONTAINER

Filed Aug. 2, 1935

Fig. 1.

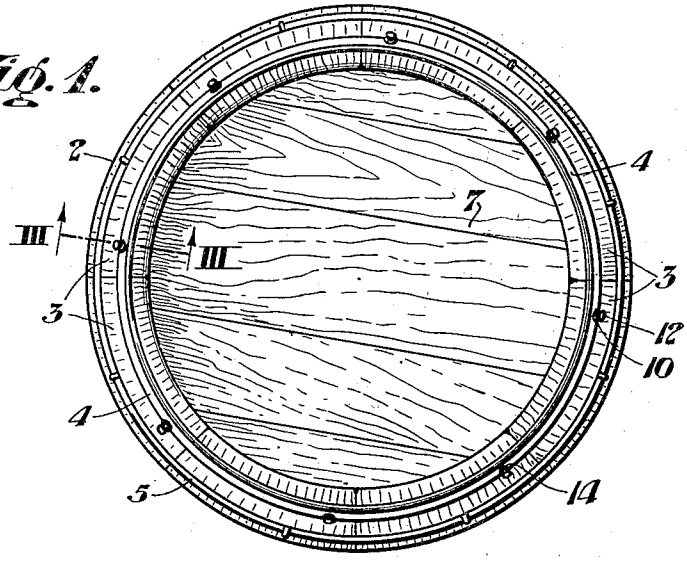


Fig. 2.

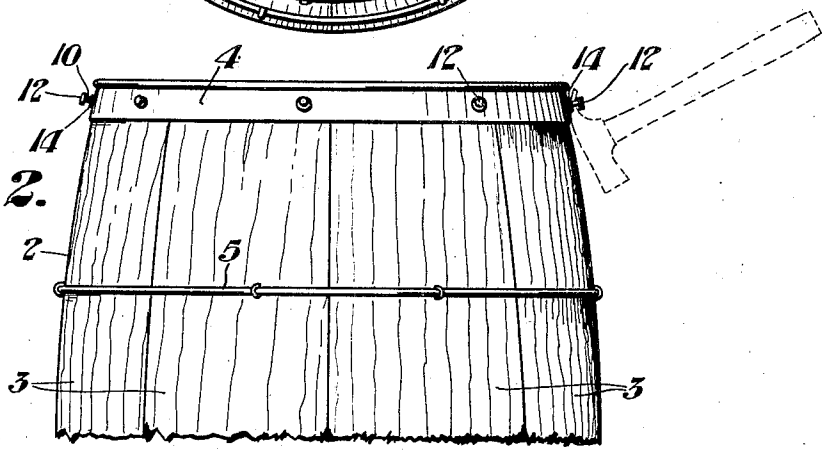


Fig. 3.

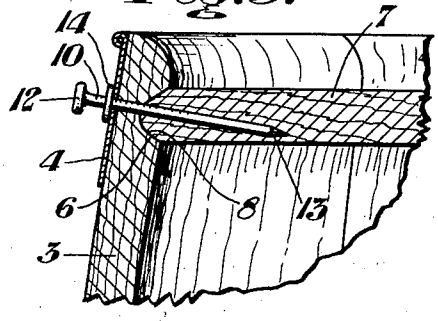


Fig. 4.



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CONTAINER

Clarence P. Reis, Chicago, Ill., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application August 2, 1935, Serial No. 34,429

1 Claim. (Cl. 217—76)

My invention relates to containers and closures therefor, and more particularly to containers having separable closures adapted to be fastened thereto by driven fastenings of such character as to permit of their ready removal without damage to either the containers or their closures.

Briefly stated, my invention contemplates the provision of containers, especially wooden receptacles; such as kegs, barrels, etc., having closures, heads or lids fastened thereto by driven fastenings; such as nails, tacks, etc. The driven fastenings are of such construction as to provide puller-engaging means substantially above the surfaces wherein the fastenings are driven, even when such fastenings are buried to their fullest extent therein. This I have accomplished by employing driven fastenings of the type commonly known as "double-headed" nails; i. e., those nails provided with a driving stop or shoulder disposed about the shank slightly spaced from the head or upset end portion thereof. The shank can only be sunk to the driving stop or shoulder, leaving the head projecting above the surface of application, whereby it may be readily engaged by any ordinary puller; such as a claw-hammer, or pinch-bar. Thus, withdrawal of such nails may be easily accomplished without damaging the containers or closures to which they have been applied and, in this way, the containers are preserved for re-use.

It has heretofore been practically impossible to open receptacles of the classes described above, particularly kegs and barrels, without breaking portions of the rims and lids, rendering them unfit for further use. But of greater significance is the fact that the broken portions of such containers offer a considerable danger hazard to the hands, arms and clothes of those who must work thereabout. This hazard is increased by the breaking off of the old type fastenings, and the exposure of undrawn fastenings, occasioned by their resistance to withdrawal, whereby a row of sharp metal points is left disposed inwardly about the inner lip of the receptacle. Obviously such projections are a menace to those persons, who must reach over and into the barrel to remove its contents.

In many fields of endeavor the preservation of the containers during the opening and emptying of the contents thereof is not only desirable but necessary in order that they may be refilled and restored to a tightly closed status. Heretofore, this has only been possible after the expenditure of much time and effort, whereby the economies effected by the re-utilization of the container are dissipated in the consumption of time and labor required to preserve the same.

It is among the objects of the present invention to provide, in combination with a container, a closure therefor having novel fastening devices of such construction and design as to insure their prompt and easy removal without damage to the container or closure.

Other objects and advantages hereof will be brought out as the description proceeds in the annexed specification, which may be more readily understood by reference to the accompanying drawing, in which:

Figure 1 represents a top plan view of a keg or barrel, showing one application of my invention.

Figure 2 is a fragmentary side elevation view of the structure shown in Figure 1.

Figure 3 is an enlarged fragmentary sectional view of my invention taken along the lines III—III of Figure 1.

Figure 4 is a side elevational view of a preferred form of fastening employed in the practice of my invention.

Referring more particularly to the drawing, the numeral 2 designates, generally, a keg or barrel which is composed in part of a plurality of staves 3. These staves 3 are held together adjacent their ends by a pair of band or head hoops 4, and intermediately thereof by one or more wire bilge hoops 5.

The inner surfaces of the staves 3 of the keg or barrel 2 are grooved adjacent each of their ends, as shown at 6, to provide a seat for a removable closure member 7, which is peripherally shaped to conform thereto, as at 8.

According to the usual practice, the band or head hoops 4 are secured to the keg or barrel 2 by conventional nails which extend through a number of the staves 3 and into the removable closure members 7, with the difficulties previously recited. In order to obviate these difficulties, a novel combination is provided by the use of driven fastenings in the form of a nail 10 having a head 12, point 13, and an intermediately disposed driving stop or shoulder portion 14. As shown in Figure 4, this driving stop or shoulder 14 is carried by the shank of the nail 10 and projects therefrom as a continuous annular flange. When the nails 10 are driven through the band or head hoops 4, through the staves 3 and into the removable closure members 7, the driving stops or shoulder portions 14 contact the band or head hoops and maintain the heads 12 in spaced relationship therefrom. This enables not only an

extremely sturdy container structure, but at the same time one from which the driven fastenings, or nails 10, may be easily withdrawn.

I claim:

A container of the barrel or keg type composed of a plurality of wooden stave elements, a metal hoop surrounding said stave elements adjacent at least one end of said container, a wooden head member disposed within that portion of said container surrounded by said hoop, and driven fastenings at spaced intervals around the circumference of said container constituting the holding means for securing said head in said container, said fastenings each comprising a shank portion, a head portion and a stop-shoulder portion spaced inwardly from said head portion, said shank portion extending through said metal hoop and said stave elements and into said container head member and said stop-shoulder being seated against said metal hoop and serving to space the head of said fastenings substantially away from said metal hoop to permit ready engagement by an extracting tool.

CLARENCE P. REIS.