June 20, 1933. C. E. CARR ET AL 1,915,183

METAL KEG

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Fig. 1.

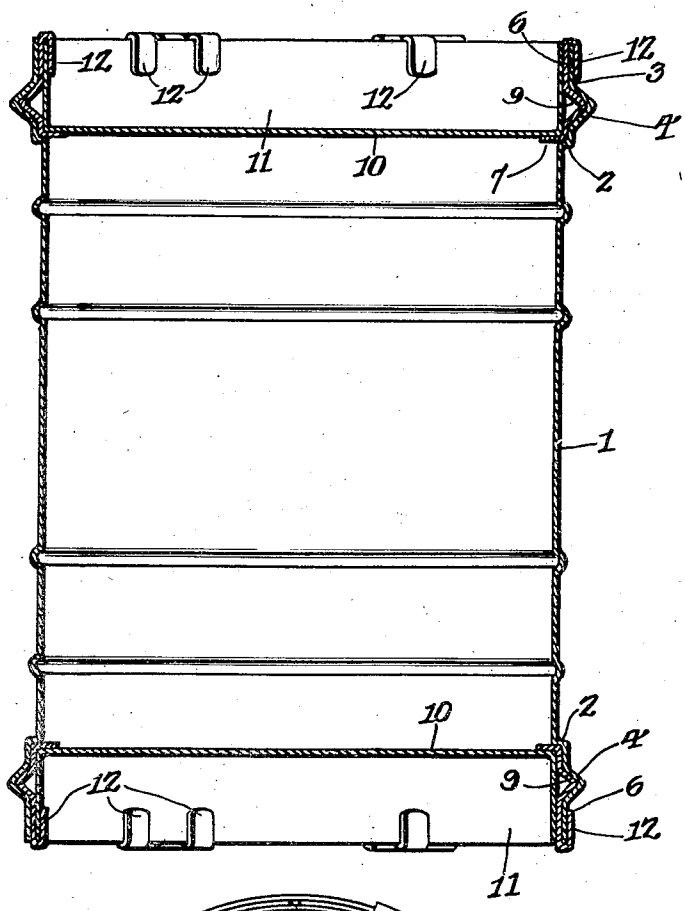
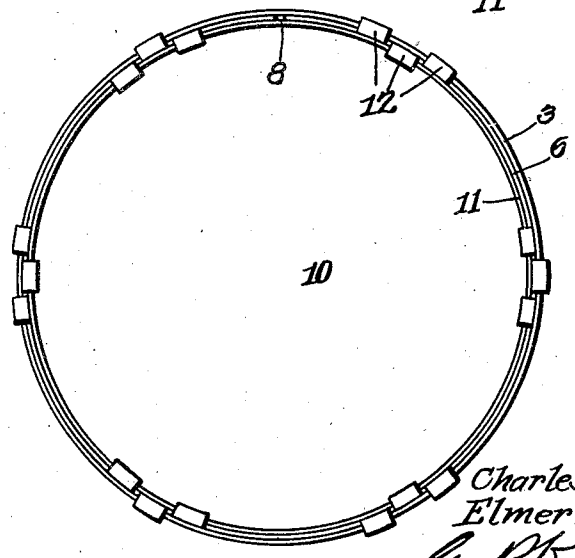


Fig. 2.



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Fig. 3.

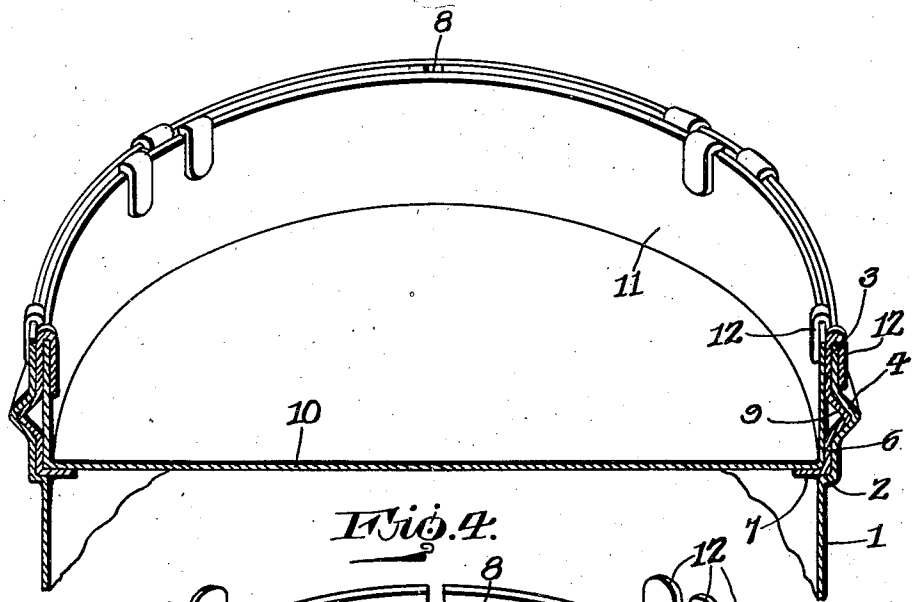
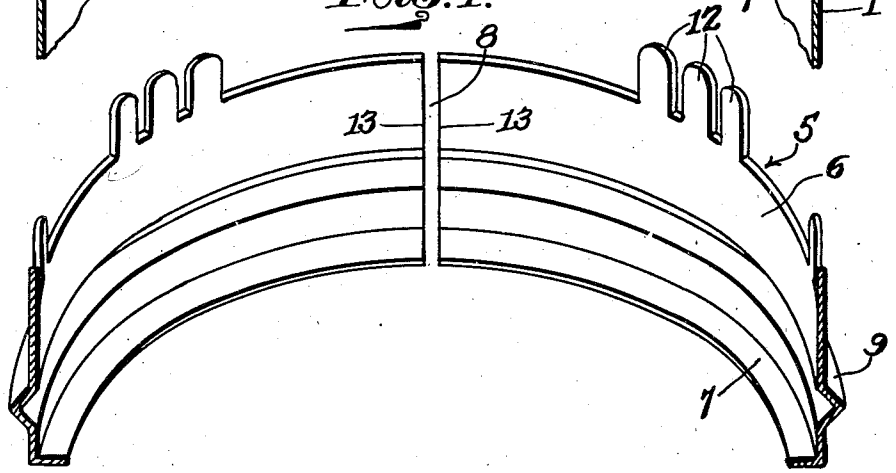


Fig. 4.



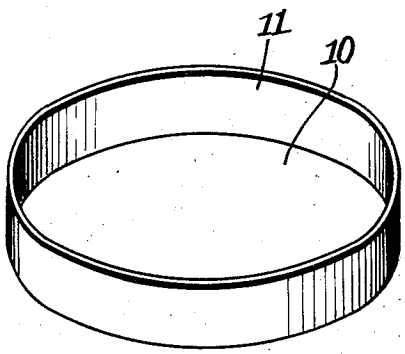


Fig. 5.

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UNITED STATES PATENT OFFICE

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METAL KEG

Application filed July 3, 1930. Serial No. 465,750.

This invention relates to a metal keg and has for its primary object to provide, in a manner as hereinafter set forth, a non-warpable keg having detachable end members or heads in order that the keg may be readily disassembled without injury to the parts thereof.

A further object of the invention is to provide a keg having detachable heads as aforesaid, wherein the heads are secured in position in a manner to prevent any loosening thereof by load pressure within the keg.

A further object of the invention is to provide a keg having detachable heads as aforesaid, wherein the heads and securing means therefor are constructed in a manner to provide for the adaptation of the heads to a keg of sectional body type, or unitary body type as desired.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts as hereinafter more particularly described, and as illustrated in the accompanying drawings wherein is shown an embodiment of the invention, but it is to be understood that the description and drawings are to be taken as illustrative and that the invention is intended to be limited only by the scope of the claims hereunto appended.

In the accompanying drawings in which like numerals are employed to designate like parts throughout the several views:—

Figure 1 is a longitudinal section through a keg in accordance with this invention.

Figure 2 is a plan thereof.

Figure 3 is an enlarged, fragmentary, perspective view thereof shown partly in section.

Figure 4 is an enlarged, sectional perspective view of one of the head securing elements.

Figure 5 is a perspective view of one of the heads.

Referring to the drawings in detail, the numeral 1 indicates the body portion of the keg which in the embodiment shown is of cylindrical, unitary construction, but which may be of sectional construction if desired, in which case each of the sections preferably will be a segment of a cylinder. The body 1 is open at its ends and is formed in spaced relation to each end with an outwardly directed annular flat shoulder 2 to provide offset end portions 3 of greater diameter than the central portion of the body 1. Each of the end portions 3 has a part thereof pressed outwardly to provide a hollow outwardly directed V-shaped rib 4 on the end portion circumferentially of the latter.

Disposed within each end portion 3 is a head securing element indicated generally at 5 which is in the form of a split annulus 6 formed at one edge with an inwardly extending lip 7. The split in the annulus is indicated at 8 and extends through the lip 7. When the element 5 is in position, the lip 7 is seated on and extends inwardly from a shoulder 2 of the body portion 1. The annulus 6 has a part thereof offset to provide a circumferentially extending rib 9 which is seated within the rib 4 in an end portion 3 when the annulus is expanded or spread. The lip 7 supports the head 10 of the keg, such head being formed with an annular flange 11 disposed within and abutting the inner face of the annulus 6 to maintain the latter in expanded or spread condition.

Formed on the upper edge of the anulus 6 is a series of spaced sets of fingers 12, in the present instance six sets of such fingers being shown with three fingers to each set. The head 10 is maintained in position by means of the fingers 12, alternate ones of which are bent inwardly over the flange 11 of the head, the remaining fingers being bent outwardly over the upper edge of the end portion 3 of the body 1. It will be noted that alternate sets of the fingers have one finger thereof bent over the flange 11 with the remaining fingers of the set bent over the edge portion of the enlarged end 3 of the body. In the next adjacent sets of fingers, one of the fingers is bent over the edge portion of an enlarged end 3 while the remaining fingers are bent over the flange 11.

The annulus 6 may be of appropriate diameter to bring the edges 13 thereof adjacent the split 8 substantially in abutting relation when the rib 9 is disposed within the rib 4,

or to bring the edges 13 into spaced relation when the rib 9 is in position within the rib 4, as desired. The ribs 4 and 9 are of V-shape cross section. In the former case, portions of the annulus adjacent the edges 3 will be overlapped when assembling the element 5 with respect to its corresponding end portion 3, while in the latter case, the edges 13 will be held in contacting relation when assembling the element 5 with respect to its corresponding end portion 3. Such of the fingers 12 as are bent over the end portion 3 tend to maintain the rib 9 in position with the rib 4 whereby relative movement between the element 5 and body portion longitudinally of the latter is prevented, while such of the fingers 12 as are bent over the flange 11 maintain the head 10 in seated position on the lip 7.

It is thought that the many advantages of a keg in accordance with this invention will be readily apparent, and although the preferred embodiment of the invention is as illustrated and described, it is to be understood that changes in the size, shape and arrangement of parts may be resorted to, so long as such changes fall within the scope of the invention as defined in the appended claims.

What we claim is:—

1. A keg comprising a tubular body formed adjacent each end thereof with an outwardly directed right angularly disposed annular shoulder providing said body with end portions of greater diameter than the portion of said body between said shoulders, each of said end portions being offset to provide an outwardly directed hollow annular rib disposed circumferentially thereof, an expandible sectional annulus positioned within each of said end portions and formed with an inwardly extending flat annular lip seated against and extending inwardly from a shoulder, each of said annuli being offset to provide an outwardly directed hollow annular rib disposed circumferentially thereof and seated in a rib of an end portion, a flanged head mounted in each of said annuli and bearing against the lip of the latter, and spaced bendable latching means extended from the outer edge of each of the annuli and opposing the outer face of an end portion and the inner face of a head.

2. A keg comprising a tabular body formed adjacent each end thereof with an outwardly directed right angularly disposed annular shoulder providing said body with end portions of greater diameter than the portion of said body between said shoulders, each of said end portions being offset to provide an outwardly directed hollow annular rib disposed circumferentially thereof, an expandible sectional annulus positioned within each of said end portions and formed with an inwardly extending flat annular lip seated against and extending inwardly from a shoulder, each of said annuli being offset to provide an outwardly directed hollow annular rib disposed circumferentially thereof and seated in a rib of an end portion, a flanged head mounted in each of said annuli and bearing against the lip of the latter, and spaced bendable latching means extended from the outer edge of each of the annuli and opposing the outer face of an end portion and the inner face of a head, each of said ribs being of V-shape in cross section.

In testimony whereof, we affix our signatures hereto.

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