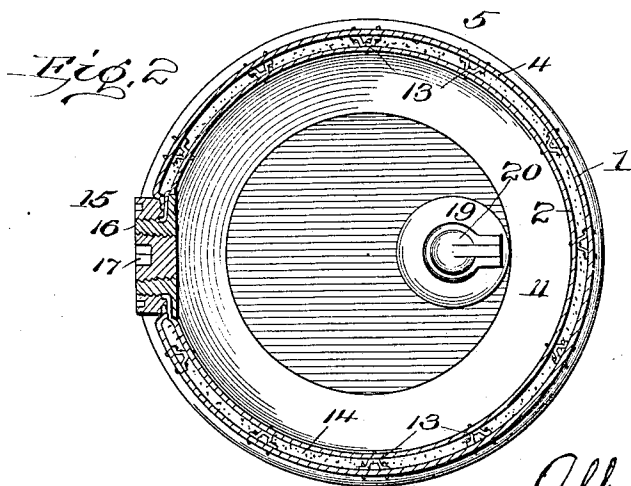
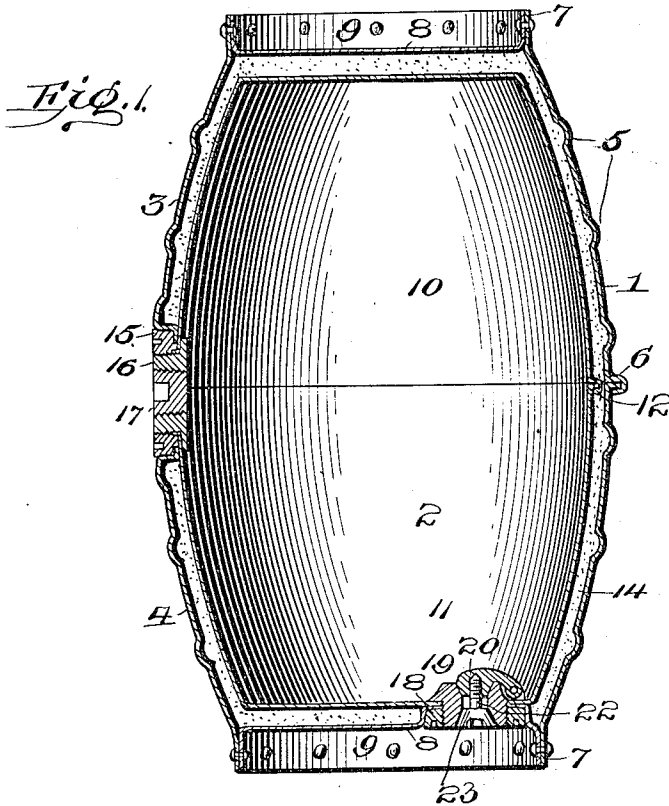


No. 819,768.

PATENTED MAY 8, 1906.

A. T. KRUSE.
SHEET METAL KEG.
APPLICATION FILED AUG. 8, 1904.

2 SHEETS—SHEET 1.



Witnesses
J. M. Fowler Jr.
H. E. Mandy.

By

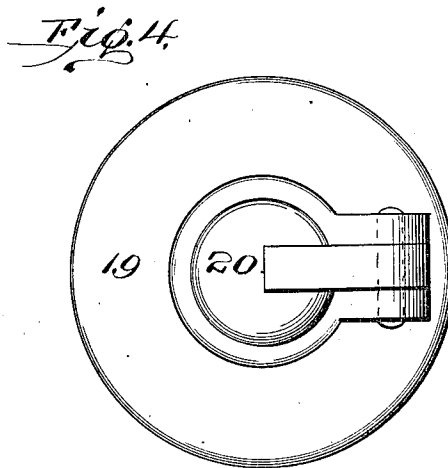
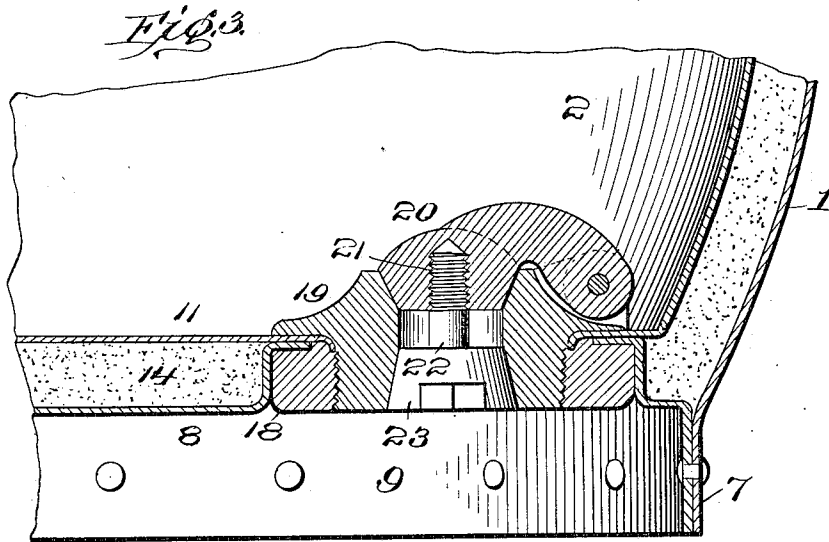
Alfred T. Kruse Inventor
Obad B. Billman Attorney

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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

ALFRED T. KRUSE, OF DEFIANCE, OHIO, ASSIGNOR TO THE AMERICAN STEEL PACKAGE COMPANY, OF DEFIANCE, OHIO, A CORPORATION OF OHIO.

SHEET-METAL KEG.

No. 819,768.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed August 8, 1904. Serial No. 219,977.

To all whom it may concern:

Be it known that I, ALFRED T. KRUSE, a citizen of the United States, residing at Defiance, in the county of Defiance and State of Ohio, have invented certain new and useful Improvements in Sheet-Metal Kegs, of which the following is a specification.

My invention relates to improvements in sheet-metal kegs especially designed for the transportation and storage of liquids, such as whisky, beer, mineral waters, &c. For this purpose wooden kegs are usually employed; but such vessels are objectionable from the fact that they soon become soaked with fluid, thereby becoming filthy, decayed, and heavy and liable to spring a leak, causing much damage and loss from the escape of contents.

The object of the present invention is to produce a generally-improved vessel of this class of sheet metal which will be better suited to its intended purposes than any other device of the same class with which I am acquainted.

With these ends in view the invention consists in the novel construction, arrangement, and combination of parts hereinafter described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims.

Referring to the drawings forming a part of this specification, Figure 1 is a horizontal sectional view of the improved keg. Fig. 2 is a transverse sectional view of the same. Fig. 3 is an enlarged sectional view of a portion of an end of the same. Fig. 4 is an end view of the inner side of the bushing-head provided with a pivoted cap or plug mounted in one of the heads of the barrel.

Similar numerals of reference indicate like parts throughout all the figures of the drawings.

The improved keg consists, essentially, of two vessels—viz., an outer vessel 1, of sheet-steel, and an inner vessel 2, of sheet-steel, brass, aluminium, or other suitable and convenient material.

The outer vessel 1 is made up of two parts 3 and 4, formed with a series of annular outwardly-extending ribs or flanges 5 and connected or joined at the center of the keg by having the contiguous edges thereof bent outwardly and over or crimped to form a flanged

joint or seam 6, which is then welded by an electric process. The ends of said outer vessel 1 are bent to form a circumferential rim or flange 7, designed to receive the ends or heads 8 of the keg. The ends or heads 8 are formed of sheet metal and provided with a corresponding circumferential rim or flange 9, adapted to set or take into the rim or flange 7, formed at the ends of the outer vessel 1, and are secured thereto by means of a series of rivets passing through said rims or flanges 7 and 9.

The inner vessel 2 is made up of two parts 10 and 11, connected or joined at the center of the keg by having the contiguous edges thereof bent outwardly and over or crimped to form a flanged joint or seam 12 and then welded by an electric process. The vessel 2, however, may be made of wood similar to the ordinary wooden beer-keg and covered directly by the outer sheet-metal vessel.

13 designates a series of longitudinally-disposed sheet-metal brace-bars of substantially U shape in cross-section (see Fig. 2) interposed between the outer and inner vessels 1 and 2 and designed to support and hold the inner vessel in proper position, provide a chamber between the walls of the outer and inner vessel, and stiffen and strengthen the same. Said brace-bars 13 are attached to said walls by means of rivets or in some other suitable and convenient manner.

14 designates material—such as charcoal, paraffin, mineral wool, or some other suitable and convenient material—interposed between the walls of said inner and outer vessel.

The openings in the keg are at the usual locations, the opening at the side being formed by a flange-plate 15, mounted in a suitable opening or recess formed in the walls of the keg and secured thereto in any suitable and convenient manner and threaded to receive a bushing 16, screwed therein. The opening of the bushing 16 is threaded and is closed by means of a countersunk plug 17.

18 designates a flange-plate mounted in a suitable opening formed in the end walls of the keg and secured thereto in any suitable and convenient manner and threaded to receive a bushing 19, screwed therein.

20 designates a movable plug pivotally secured at its side in a recess formed in the inner side of the bushing 19. The head of the

plug 20 is provided with a central threaded opening 21, designed to receive the end of a threaded shank 22 of a countersunk plug 23.

From the foregoing description, taken in connection with the accompanying drawings, it will be seen that I provide a keg of sheet metal which is exceedingly simple in construction, strong and durable, and which is in every way better suited to its intended purposes than the ordinary wooden kegs now in use.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principles or sacrificing any of the advantages of this invention.

Having thus described my invention, although without having attempted to set forth all the forms in which it may be made or all the modes of its use, I declare that what I claim, and desire to secure by Letters Patent, is—

1. A sheet-metal keg consisting of an outer vessel having its ends bent to form a circumferential rim or flange, ends or heads provided with a corresponding rim or flange adapted to take into and be secured to said first-mentioned rim or flange, an inner vessel comprising two parts connected at the center of the keg by having the contiguous edges bent over to form a seam, a series of longitudinally-disposed brace-bars secured to said inner and outer vessel, and non-metallic insulating material interposed between the same.

2. A sheet-metal keg, consisting of an outer vessel comprising two parts connected at the center of the keg by having the contiguous edges thereof bent over to form a seam, heads secured in the ends of said outer vessel, an inner vessel comprising two parts connected at the center of the keg by having the contiguous edges thereof bent over to form a seam, and longitudinally-disposed brace-bars interposed between the same.

3. In a sheet-metal keg, the combination with an outer vessel, formed with a series of

annular outwardly-extending ribs or flanges, and comprising two parts joined at the center by means of a seam, and heads secured to the ends of said outer vessel; of an inner vessel mounted therein, and a series of longitudinally-disposed U-shaped brace-bars interposed between said inner and outer vessel to hold the same in proper position.

4. A sheet-metal keg, consisting of an outer shell, separately-made flanged heads inserted and secured in the open ends of the same, an inner vessel comprising two parts connected at the center of the keg by having the contiguous edges bent over to form a seam, a series of longitudinally-disposed brace-bars secured to said outer vessel and interposed between said inner and outer vessels, and non-metallic insulating material interposed between the same.

5. A sheet-metal keg, consisting of an outer vessel connected at the center of the keg by having the contiguous edges thereof bent over to form a seam, heads secured at the ends thereof, an inner vessel comprising two parts joined at the center of the keg by having the contiguous edges bent over and about to form a seam, non-metallic insulating material interposed between said inner and outer vessel, and longitudinally-disposed brace-bars interposed between and connecting and supporting said inner and outer vessels.

6. In a sheet-metal keg, the combination with an outer vessel, and heads secured in the ends thereof; of an inner vessel comprising two parts joined at the center of the keg, insulating material interposed between said inner and outer vessel, and a series of longitudinally-disposed brace-bars interposed between and connected to said inner and outer vessel.

In testimony whereof I have affixed my signature in presence of two witnesses.

ALFRED T. KRUSE.

Witnesses:

A. F. DIEHL,
F. M. PARTEE.