No. 797,650. PATENTED AUG. 22, 1905.

R. S. WIESENFELD.

BEER COOLER.

APPLICATION FILED MAR. 12, 1904.

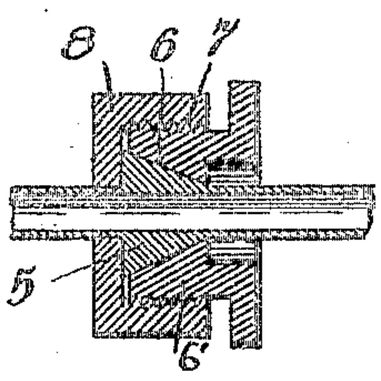


FIG. 3.

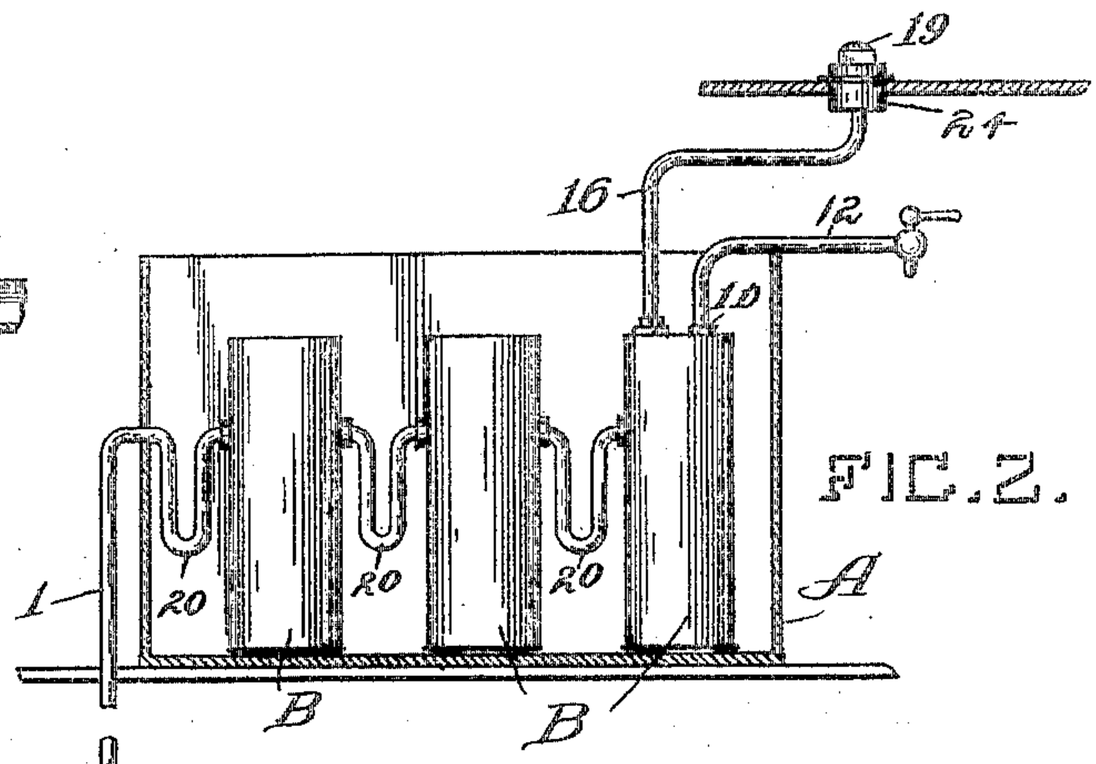


FIG. 2.

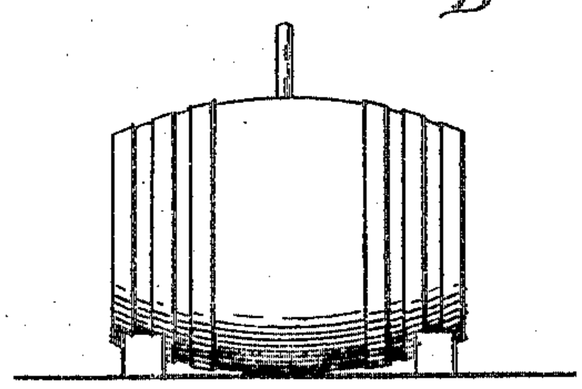


FIG. 1.

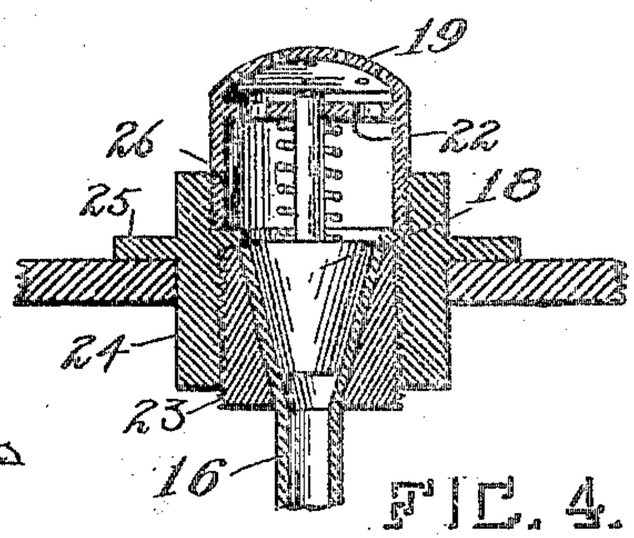
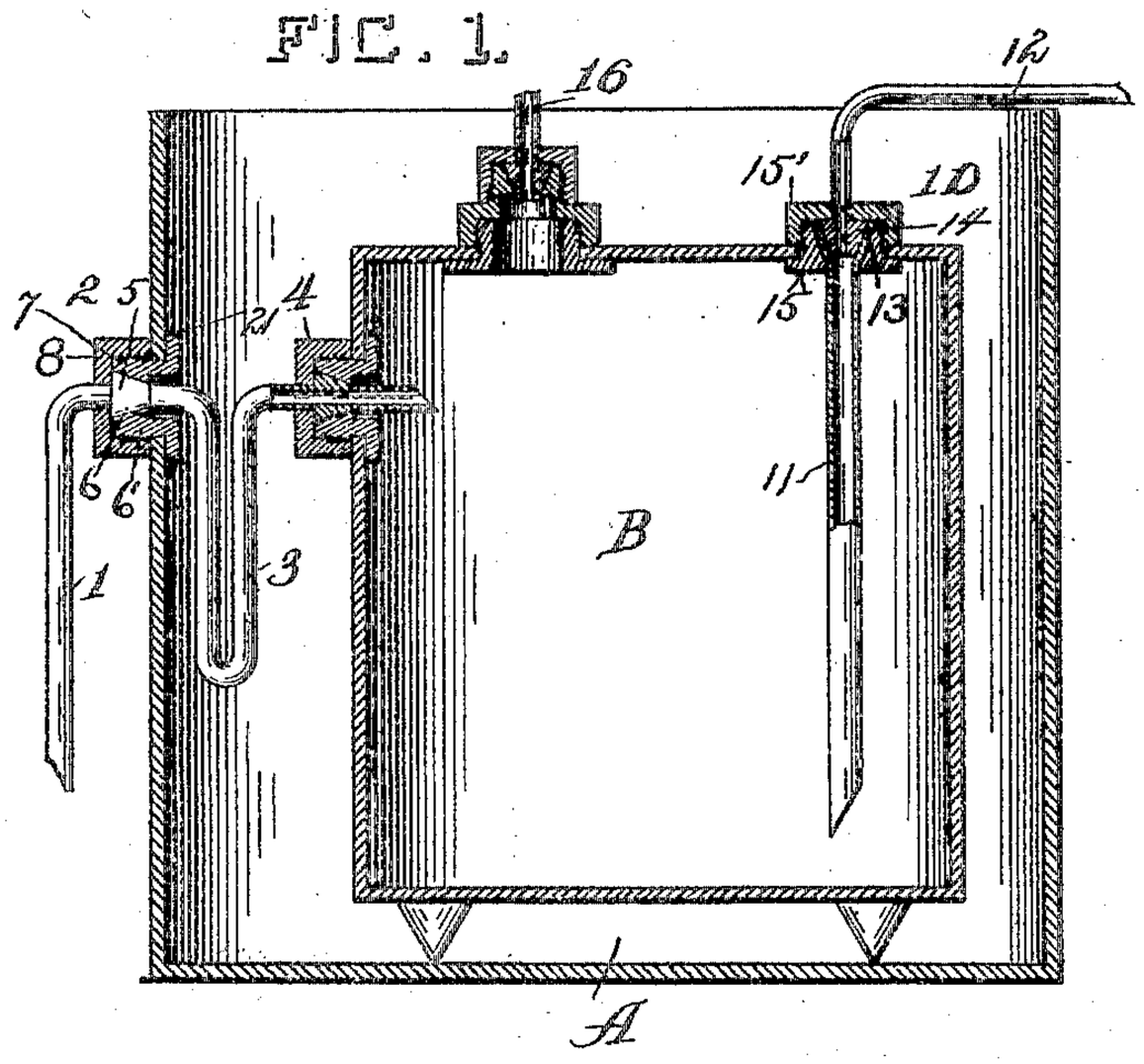


FIG. 4.



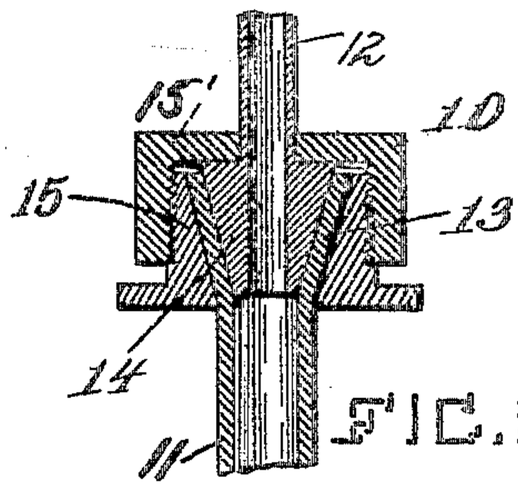


FIG. 5.

Witnesses
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by Henry L. Brewington
his Attorney.

UNITED STATES PATENT OFFICE.

ROBERT S. WIESENFELD, OF BALTIMORE, MARYLAND.

BEER-COOLER.

No. 797,650. Specification of Letters Patent. Patented Aug. 22, 1905.

Application filed March 12, 1904. Serial No. 197,814.

To all whom it may concern:

Be it known that I, ROBERT S. WIESENFELD, a citizen of the United States, residing at Baltimore city, State of Maryland, have invented certain new and useful Improvements in Beer-Coolers, of which the following is a specification.

My invention relates to an improvement in safety-valves for beer-coolers whereby excessive gas is disposed of automatically and the danger of bursting of parts is avoided.

With these objects in view my invention consists in certain novel features of construction and combinations of parts, which will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of one form of my improved beer-cooler, showing the safety-valve coupling. Fig. 2 is a view in side elevation, and Figs. 3, 4, and 5 illustrate the different connections and the safety-valve.

Referring to Fig. 1, A is an outer tank for ice or water, and B is the inner tank for the beer, the latter resting in the former and preferably supported above the bottom thereof, as shown. A pipe 1 leads from the beer-keg through a coupling 2 and by the U-shaped connection 3 through a coupling 4 into the beer-tank. This pipe is adapted to convey the beer or other beverage to the inner tank B, the beverage being placed under pressure in the keg in any well-known manner, as by means of an air-pump. (Not shown.) The couplings 2 and 4 are practically the same, and, as shown in detail in Fig. 3, they comprise a head 5, ground to a taper whereby to fit the orifice 6, formed in the sleeve 6′. The exterior of the latter is screw-threaded, as at 7, and an internally-threaded cap 8 is screwed down upon these threads, whereby to force the tapering head into the orifice 6 and hold it securely therein, thus making a tight joint. The tanks are apertured to receive the couplings, the wall of each tank being securely clamped between the rim of the cap and an annular shoulder 21 on the sleeve 6′. A practically similar joint 10 is formed between the two sections 11 and 12 of the discharge-pipe, section 11 having a conical upper end 13 and section 12 a cone-shaped head 14, which is held therein air-tight by the coupling or union 15 and cap 15′. A gas-escape pipe 16 is similarly joined to the beer-tank and is provided at its outer end with a safety-valve, which comprises a spring-actuated plug-valve 18, fitted to a cup-shaped outer end of the pipe 16. A perforated cap 19 is screwed down over this valve, compressing the spring, the cap 19 being provided with an internal grille or apertured guide 22, in which the stem of the valve is loosely received, and by turning this cap in or out the tension of the spring is regulated to the pressure desired for unseating the valve.

The valve-plug 18 may be seated in the conically-expanded head of the pipe 16, the head of the pipe being received in a similarly-shaped aperture formed in a thimble 23, the thimble being threaded to removably engage the hollow socket 24. This socket is provided with an exterior flange 25, adapted to support the same on a counter, floor, or other suitable place, and with an internal flange 26, which serves as a stop to limit the movement of the thimble 23 from one side and the cap 19 from the opposite side of the socket.

In Fig. 2 an oblong or elliptical outer tank A is shown with a series of connected beer-tanks therein. While I have shown three, it is obvious that a greater or less number could be employed. In the drawings these are shown connected by U-shaped pipes 20 20, and the same sort of couplings are preferably employed as hereinbefore described. With this arrangement of beer-tanks it is possible to cool a larger amount of liquid than can be contained in one tank, and a further advantage resides in the fact that the liquid is not drawn or dispensed from the first tank or that into which the liquid flows from the keg or other receptacle, but it is dispensed from the last tank in the series, thus making it possible to dispense cold beer at all times.

Other slight changes might be resorted to in the form and arrangement of the several parts described without departure from the spirit and scope of my invention, and hence I do not wish to limit myself to the precise constructions herein set forth; but,

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a beer-cooler comprising a closed beer-tank, of a safety-valve, and a pipe connecting the safety-valve and beer-tank, the head of the pipe being conical in shape, a thimble in which the head is seated, a socket member with which the thimble engages, a valve seated in the head

of the pipe, a stem secured to the valve, a perforated cap adjustably secured to the socket member, a grille carried by the cap, the stem loosely received in the grille, a spring engaging the grille and valve, an internal flange on the socket member to limit the movement of the thimble and an external flange on the socket member for engaging a suitable support.

2. The combination with a beer-cooler, provided with a closed beer-tank, of a safety-valve comprising a suitably-supported socket member, a thimble removably located in the socket member at one end, an adjustable cap located on the other end of the socket member, a pipe-head supported in the thimble, a flange carried by the socket member for limiting the movement of the thimble and cap, and a valve located in the socket member and normally closing the pipe, the opposite end of the pipe being connected with the beer-tank.

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

ROBERT S. WIESENFELD.

Witnesses:

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J. ALEX. HILLEARY, Jr.