(No Model.)

J. T. JONES.

ALE OR BEER CONDENSER AND COOLER.

No. 530,309. Patented Dec. 4, 1894.

Fig. 1.

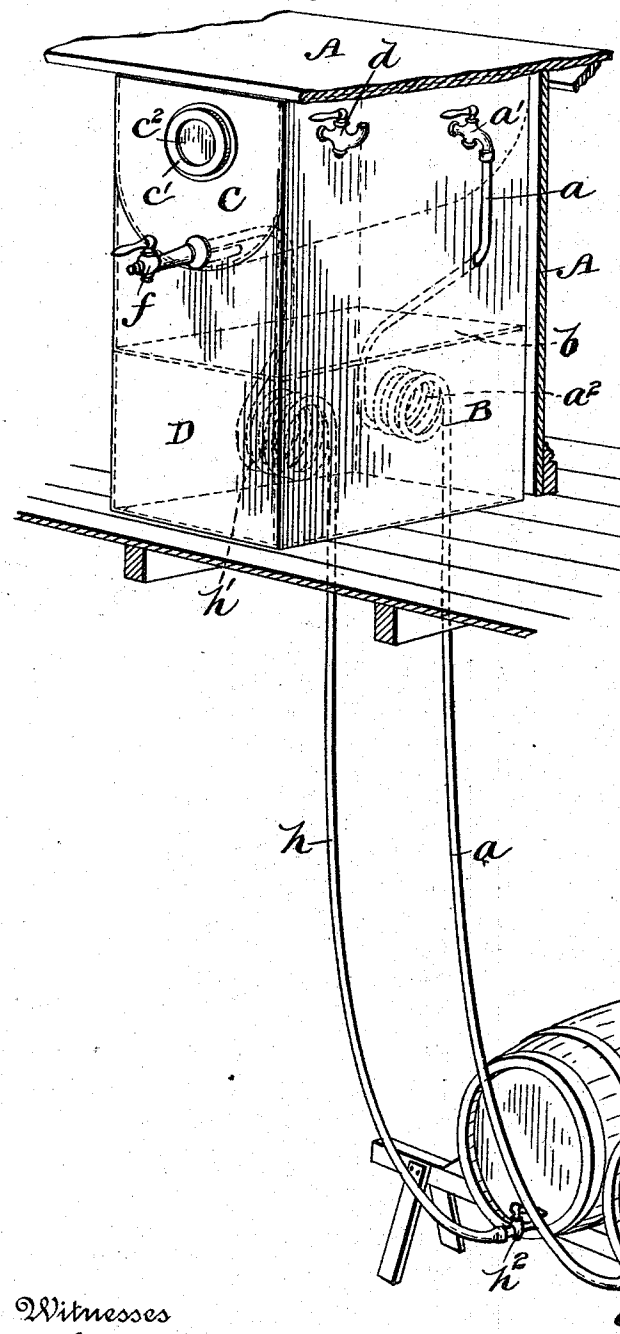
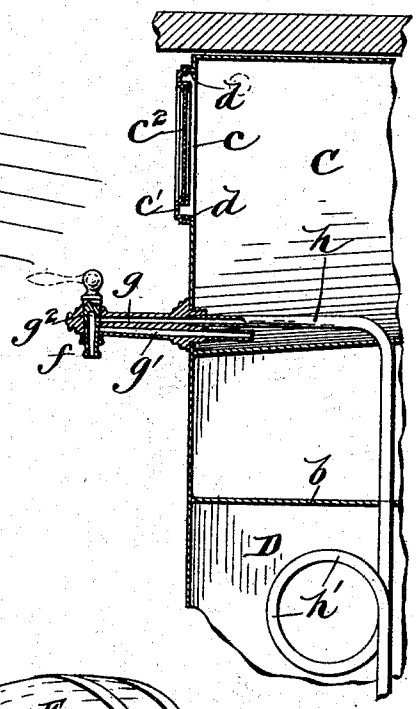


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN T. JONES, OF SCRANTON, PENNSYLVANIA.

ALE OR BEER CONDENSER AND COOLER.

SPECIFICATION forming part of Letters Patent No. 530,309, dated December 4, 1894.

Application filed June 23, 1894. Serial No. 515,508. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. JONES, a citizen of the United States, residing at Scranton, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Ale or Beer Condensers and Coolers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in ale or beer condensers and coolers and consists in the combination of an ale or beer condenser having connection with the source of supply, and a two-way faucet having one of its inlet passages connected with the condenser and the other directly with the source of supply.

It also consists in the combination of an ale or beer condenser mounted in an ice chamber and having connection with the source of supply, a two-way faucet having one of its inlet passages connected with the condenser, and a pipe having a coil in the ice chamber and connecting the other passage of the faucet directly with the source of supply.

It also consists in certain other novel constructions, combinations and arrangements of parts as will be hereinafter more particularly set forth and claimed.

In the accompanying drawings, Figure 1 is a perspective view of the devices embodying my invention as applied under a bar and showing the supply kegs in a room or cellar beneath, and Fig. 2 represents a detail central, vertical section through the upper portion of said devices.

A in the drawings is the bar; B, the outer casing of the condenser or cooler; C, the condenser tank; D, the ice chamber, and E the supply kegs.

The condensing tank C is formed in the top of the casing B and preferably has a rounded and forwardly inclined bottom. Access is had to the interior of said tank for cleaning or the like, through the opening c in the front thereof. This opening is closed by the cover c' which is formed of a circular screw threaded frame within which an inspection glass c^2 is secured. The screw threads of this circular ring engage screw threads formed on a flange d which surrounds the opening c and thus when the cover is secured in place the contents of the condenser can easily be seen through the inspection glass and the height of the ale or beer regulated.

The ice chamber D is located in the bottom of the chamber or casing B and above the same is located a horizontal partition b forming an air space below the condenser. The condenser is connected with one of the kegs E in the cellar below by means of a pipe a which is provided with a cock a' at the point where it enters the condenser. The pipe a passes downward into the ice chamber and is formed in a coil a^2 therein. It then passes through the bottom of the casing B and to the supply keg E where it is provided with another cock a^3. The condenser is provided with an air cock d by means of which air is admitted to its interior or the gas allowed to escape therefrom. A two way cock f is provided in the front bottom portion of the condenser. This cock has two passages g, g' and a doubly apertured plug whose apertures correspond respectively with the passages g, g' when the plug is turned to the right or the left respectively.

The passage g' communicates with the interior of the condenser and the passage g communicates with a pipe h which passes through the condenser and partition b and is provided with a coil h' in the ice chamber similar to pipe a. It then passes to the ale or beer keg in the cellar beneath and is provided with a cock h^2 similar to cock a^3.

The operation of the devices is as follows: The cocks a^3, h^2, a' and d are opened and the desired amount of ale or beer permitted to flow into the condenser. The cock a' is then closed, shutting off the supply to the condenser. The ale or beer will almost immediately lose its head or bead, upon entering the condenser, because the gas is allowed to escape through the air cock d. When the ale or beer has subsided sufficiently the cock d is closed to prevent the ale or beer from becoming flat or stale, as continued exposure to the air will cause this result. The height of the ale or beer in the condenser can be seen through the inspection glass c^2. The ice in the ice chamber will of course cool the ale or beer that passes through the coils a^2 and

h' and will also cool the air in the chamber above the diaphragm b and thus cool the contents of the condenser without chilling it.

When it is desired to draw a glass of ale the cock f is first turned to the right and the ale drawn from the condenser without any head or bead. Then the cock is turned to the left into the position shown in Fig. 2, and the ale drawn directly from the keg with a full head or bead and thus the glass or other receptacle is filled almost completely with liquid ale and at the same time it has a good head or bead upon it.

Any other liquid may of course be used in connection with my invention as I do not limit it to ale or beer.

What I claim as my invention is—

1. In an ale or beer condenser, and cooler, the combination of a condensing and cooling tank, an ice chamber provided with a partition which forms a cold air space between the ice and the under side of the condensing chamber, a two-way faucet having one of its inlet passages connected with the condenser, and a conducting pipe having a coil located in the ice chamber below the partition and connecting the other passage of the faucet directly with the source of supply; the construction and operation being such that the ice is out of contact with the condenser and the beer in the same prevented from being unduly chilled, substantially as described.

2. In an ale or beer condenser and cooler, the combination of a sealed air-tight condensing and cooling tank mounted in the top of a casing and being connected with the source of supply and having an opening provided with a transparent cover, an air cock in said condenser, a partition dividing the casing into an air and ice space, a two-way faucet having one of its inlet passages connected with the condenser, and a pipe having a coil, in the ice chamber below the partition and connecting the other passage of the faucet with the source of supply; the construction and operation being such that the ice is out of contact with the condenser and the beer in the condenser can be freed from gases and kept from being unduly chilled, substantially as described.

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

JOHN T. JONES.

Witnesses:
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