

A. KUNKLE.
BEER-COOLER.

No. 190,340.

Patented May 1, 1877.

Fig. 1.

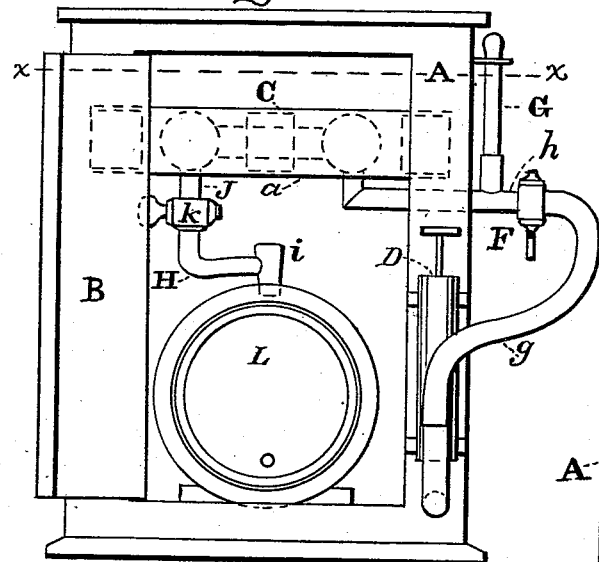


Fig. 2.

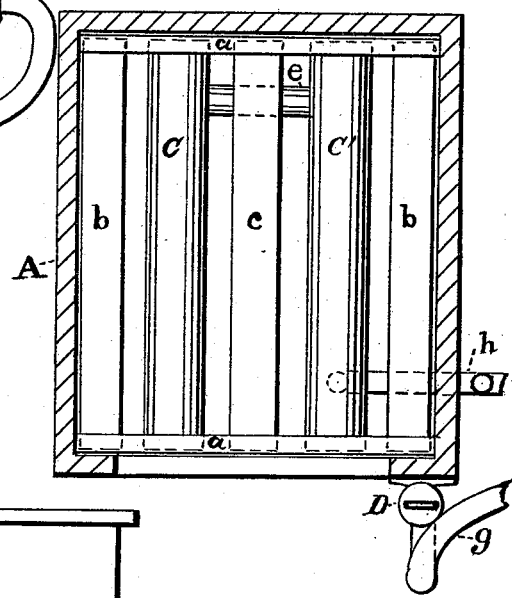
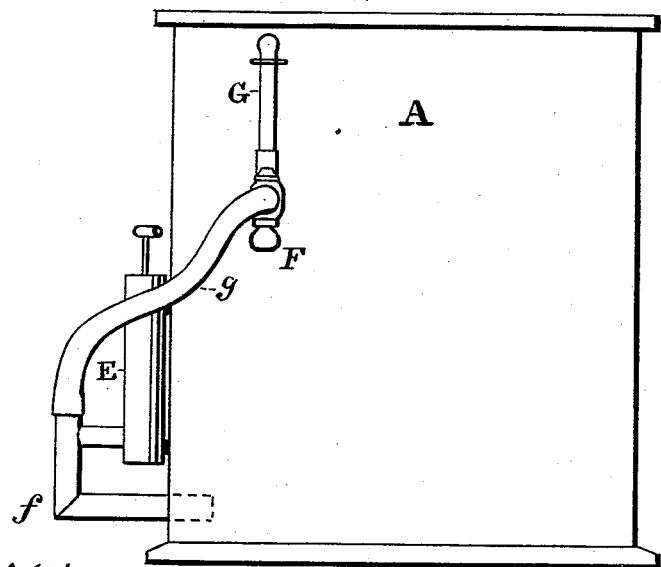


Fig. 3.



Witnesses :

Theodor Mungen.
Henry A. Daniels.

Inventor:

Adam Kunkle.
by *G. B. Towles*
Attorney

UNITED STATES PATENT OFFICE.

ADAM KUNKLE, OF BELLAIRE, OHIO, ASSIGNOR OF ONE-HALF HIS RIGHT
TO WILLIAM L. TRIPP, OF SAME PLACE.

IMPROVEMENT IN BEER-COOLERS.

Specification forming part of Letters Patent No. 190,340, dated May 1, 1877; application filed
March 30, 1877.

To all whom it may concern:

Be it known that I, ADAM KUNKLE, of Bellaire, in the county of Belmont and State of Ohio, have invented certain new and useful Improvements in Beer-Coolers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a front view of my improved beer-cooler; Fig. 2 a horizontal section, as indicated by the line *xx* of Fig. 1; and Fig. 3, a side elevation.

Like letters in all the figures of the drawing indicate like parts.

This invention relates to a beer-cooler having two or more communicating cold-air chambers, forming, in connection with a frame to which they are attached, an ice-shelf to hold the ice, in combination with an air-pump and tubing, suitably constructed to connect the pump and keg containing the beer with the said chambers, so as to supply the beer with cold air, the temperature of the air being greatly increased by passing it through the cold-air chambers, thus keeping the beer fresh and cool until it all has been drawn off, as will be hereinafter more fully explained.

A is the cooler or ice-chest, with the door B shown open; C C', the cold-air chambers, attached each between the central and side bars of the frame *abcb*. The cold-air chambers communicate with each other at their rear ends by means of the connecting-tube *e*, which passes through the central bar *c*. These chambers, in connection with the frame, form an ice-shelf in the upper part of the chest, upon which the ice is placed, and the whole rests upon cleats on the sides of the chest. D is the air-pump, attached to the front of the chest, and connected to an elbow-pipe, *f*, extending down under the pump and into the chest. A rubber tube or hose, *g*, is attached at one end to the said pipe, and the other to a tube, *h*, which

passes through the side of the chest and connects with the under side of the chamber C'. The said tube *h* is provided with a stop-cock, F, and water-gage G. A rubber tube, H, is attached at one end to a plug, *i*, driven into the bung of the keg L, containing the beer, and at the other to a tube, *k*, connected to the under side of the chamber C. The said tube *k* is provided with the stop-cock J.

The operation is as follows: A sufficient quantity of ice is placed on the shelf over the chambers, and as soon as the air in the chest becomes refrigerated it is then pumped or forced, by means of the air-pump, into the cold-air chambers, through the tubing *fgh*, and thence into the keg L, through the tubing H J, the refrigerated condition of the chambers being such, from the contact of the ice thereupon, that the temperature of the air, though already cold before reaching the chambers, is greatly increased while passing through the same, so that the beer is kept perfectly cool and fresh until it all has been withdrawn from the keg. The quantity or pressure of the air in the keg or air-chambers will be indicated by the rise or fall of water in the gage, the pressure being regulated by the stop-cock F. When the keg is empty the stop-cock *k* is turned to shut off the air. The plug is then withdrawn and inserted in the bung of a new keg, and the stop-cock turned on as before.

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

A beer-cooler having two or more communicating cold-air chambers, forming, in connection with a frame to which they are attached, an ice-shelf, in combination with an air-pump, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

ADAM KUNKLE.

Witnesses:

W. L. TRIPP,
JOHN H. MATTES.