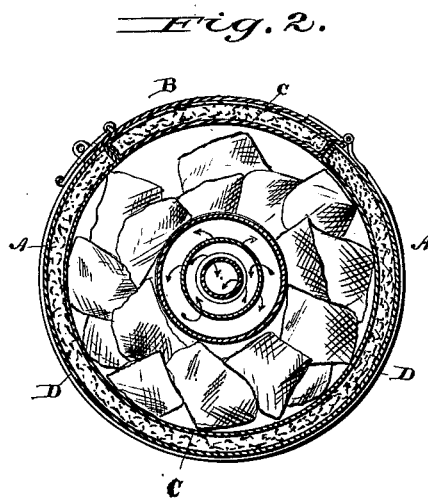
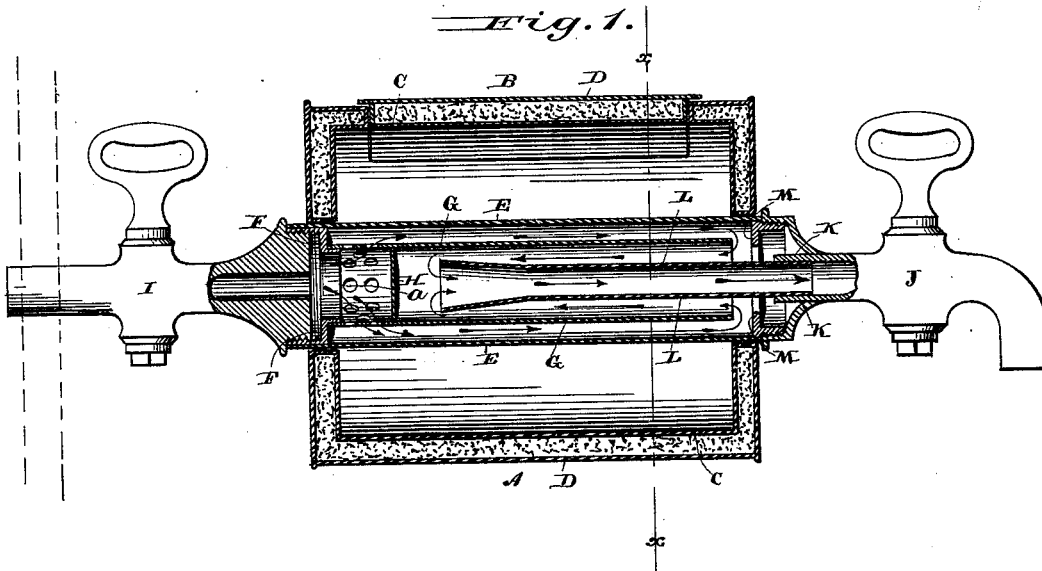


W. B. FRANTZ.
Beer-Cooler.

No. 206,941.

Patented Aug. 13, 1878.



Attest:
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Inventor.

By: H. J. Abbot,
Atty.

UNITED STATES PATENT OFFICE.

WILLIAM B. FRANTZ, OF JOPLIN, MISSOURI.

IMPROVEMENT IN BEER-COOLERS.

Specification forming part of Letters Patent No. 206,941, dated August 13, 1878; application filed April 9, 1878.

To all whom it may concern:

Be it known that I, WM. B. FRANTZ, of Joplin, in the county of Jasper and State of Missouri, have invented certain new and useful Improvements in Faucets for Cooling Beer; and I do hereby declare that the following is a full, clear, and exact description thereof.

This invention relates to certain improvements in faucets for cooling beer, water, and other liquids; and the invention consists in a cooling-chamber provided with a longitudinal tube, centrally arranged, having interior straight passages to carry the liquid back and forth through the cooling-chamber before passing out at the spigot, which will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and arrangement, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a longitudinal section through the cooling chamber and passages through which the liquid passes, and Fig. 2 is a cross-section taken on line *xx* of Fig. 1.

In the drawing, A represents the ice box or cylinder, provided with a door, B, constructed to fit close and snugly in place. This cylinder and its door are provided with an inner casing, C, between which and the outer casing, D, is placed any suitable non-conducting material, as shown in drawing. Longitudinally through this cylinder A passes a tube, E. This tube passes through and snugly fits in the openings at each end of the cylinder, so as to prevent leakage and permit the withdrawal of the tube for the purpose of cleaning. The opening at each end of the cylinder may be provided with a suitable packing, if desired.

Within the tube E, a suitable distance from the end, is placed a collar, F, from which extends a tube, G. This tube G is provided with a diaphragm, H, arranged a suitable distance from the collar F. The tube G, between this diaphragm H and collar F, is provided with perforations *a*, as shown in Fig. 1. The perforated end of the tube G may be provided with a suitable cloth or strainer, to serve as a filter, if desired. A stop-cock, I, is screwed or otherwise suitably secured in this end of the tube E, as shown. The other end of the tube E is provided with a spigot, J, which is constructed with an inwardly-projecting col-

lar, K, in which is placed one end of a tube, L, extending into the tube G to within a suitable distance of the diaphragm H, as shown. The end of the tube E to which the spigot J is secured is constructed with a shoulder, M, which extends to within such distance of the tube L as to allow of its free passage when the cooler is taken apart for cleaning.

This cooler is secured to a barrel or other liquid-containing vessel, and operated in the following manner: The stop-cock I is detached and inserted into the liquid-containing vessel. The cooler is then secured to the stop-cock, as shown in Fig. 1. It is understood that any suitable cooling material may be placed in the cylinder A. When the cock I is turned the liquor passes in through the perforated end of the tube G, then down the passage between this tube G and the tube E to the holder M, which throws it into the passage between the tubes G and L, then back in this passage to the diaphragm H, which in turn throws it into the tube L, that feeds the liquor to the spigot J.

It will be seen that by this construction and arrangement the liquor passes back and forth through the cooling-chamber and becomes thoroughly cooled before it is drawn out at the spigot J, thereby cooling the liquid with a less amount of ice, and providing a device that, by reason of its simplicity and completeness in construction, will supply an article that cannot but meet the demands both of utility and cheapness.

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

1. The combination of the tube G, having one end provided with a diaphragm, H, and perforated, as shown, with the tubes L E and cylinder A, substantially as described.

2. The combination of the cylinder A, provided with a door, B, tube E, shoulder M, tube G, having one end provided with a strainer or filter, substantially as described, with the stop-cock I, spigot J, and tube L, as shown and described.

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

WILLIAM B. FRANTZ.

Witnesses:

GEO. N. SLEIGHT,
WILLIAM HENRICH.