

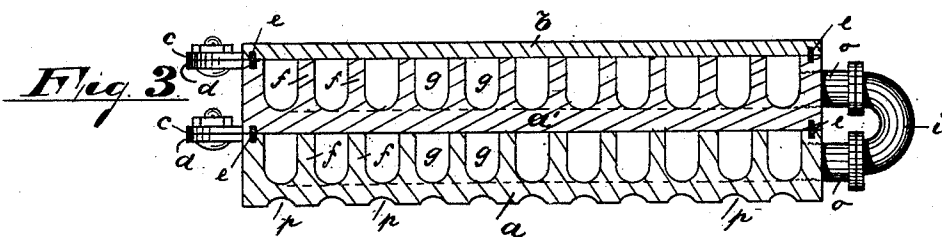
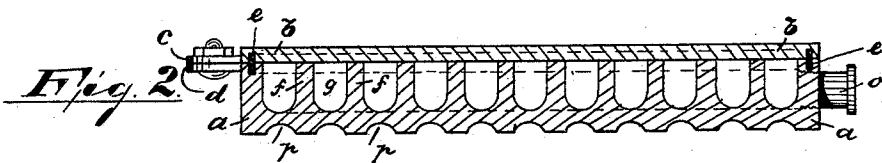
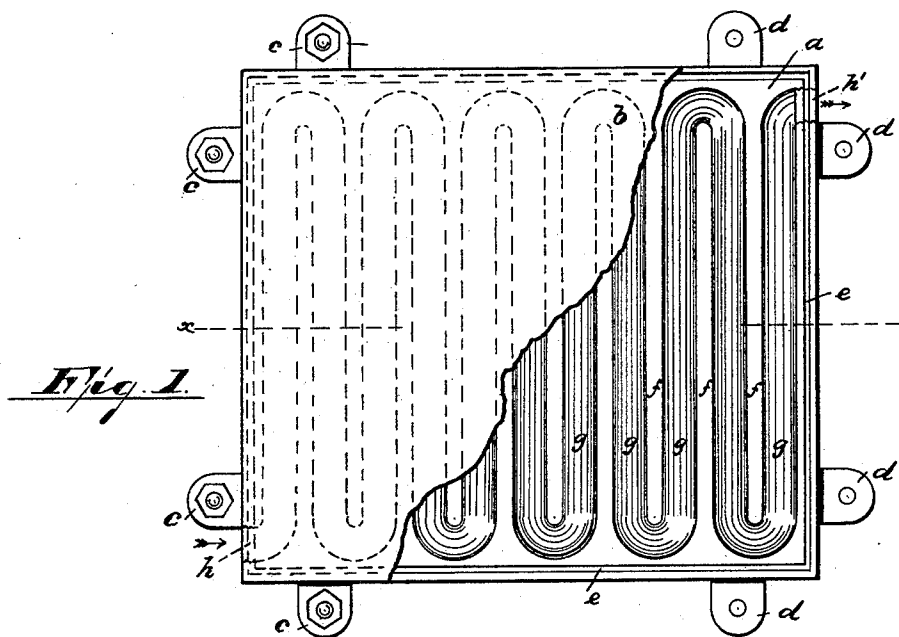
(No Model.)

2 Sheets—Sheet 1.

V. C. TRABOLD.
BEER COOLER.

No. 468,050.

Patented Feb. 2, 1892.



WITNESSES:

E. L. Sherman

Wm. D. M. M.

INVENTOR:

V. C. Trabold

BY

Gartner & Co.

ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2.

V. C. TRABOLD.
BEER COOLER.

No. 468,050.

Patented Feb. 2, 1892.

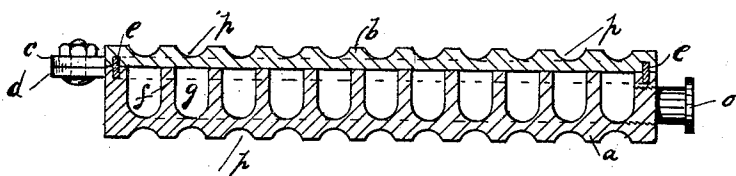


Fig. 4

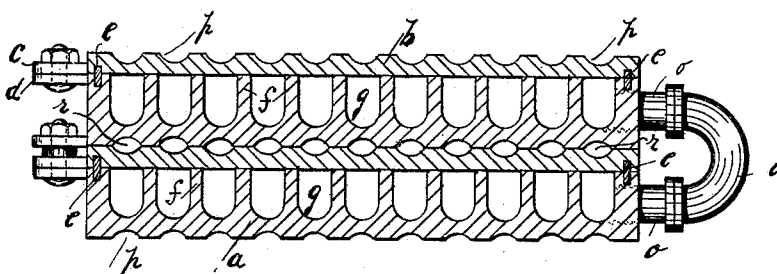


Fig. 5

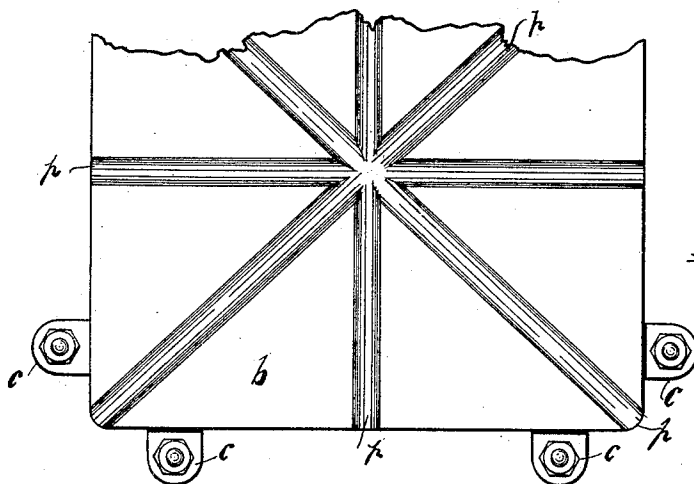


Fig. 6

WITNESSES:

Wm. S. Small.
E. L. Sherman

INVENTOR

Valentin C. Trabold

BY

Gartner & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

VALENTIN C. TRABOLD, OF NEWARK, NEW JERSEY.

BEER-COOLER.

SPECIFICATION forming part of Letters Patent No. 468,050, dated February 2, 1892.

Application filed December 30, 1890. Serial No. 378,221. (No model.)

To all whom it may concern:

Be it known that I, VALENTIN C. TRABOLD, a citizen of the United States, residing at Newark, Essex county, and State of New Jersey, have invented certain new and useful Improvements in Beer-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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to produce a cooler for liquids that shall be quick and reliable in its action, occupy greatly-reduced space, easily cleaned and kept in order, and economical in construction.

The invention consists in the improved cooler for liquids and the peculiar construction, arrangement, and combination of the various parts thereof, as will be hereinafter more fully described, and finally embodied in the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several figures, Figure 1 is a top plan view of my improved cooler, a part of the cover being broken away. Fig. 2 is a sectional view on line *x*, Fig. 1. Fig. 3 is a sectional view showing two coolers with plain tops combined together. Fig. 4 is a central cross-section of a cooler, showing the top and bottom corrugated or ribbed. Fig. 5 is a central cross-section of two coolers combined with corrugated or ribbed tops and bottoms and showing the intermediate cooling spaces or chambers; and Fig. 6 is a top plan view of a portion of the top of a cover, showing diagonal or angular corrugations or ribs.

In said drawings, *a* indicates the body or frame of my improved cooler, with removable top *b* firmly secured to the body by means of tightening screws or bolts passing through lips *c*, projecting from the edges of the top, and corresponding lips *d*, projecting from the sides of the body; or the top may be secured to the body in any other desired manner. Parallel with the edge of the body and extending continuously around is a groove or slot, in which is fitted and adjusted an elas-

tic strip or band *e*, projecting a little above the surface of the edge and adapted to fit a corresponding groove or slot in the under side of the top, thus forming a complete and perfect air and liquid tight packing when the top is secured to the body. Within the body *a* are arranged division pieces or strips *f*, secured to or made integral with the body and made a little shorter than the distance between the sides of the body, and so arranged that the open spaces between the ends of the strips and the sides of the body shall be alternate, as shown in Fig. 1. By this arrangement of the division pieces or strips a continuous passage *g* is formed for the flow of the liquid to be cooled.

Openings *h h'* are cut in the edge of the body to form inlet and outlet connections from the outside with the inner liquid-passage *g*, and in these openings are secured in any desired manner nipples or unions *o* for connecting the cooling mechanism with a supply and discharge pipe. The lower inner surface of the liquid-passage *g* is preferably made concave, or approximately so, for convenience of cleaning and facilitating casting. The sides and bottom of the liquid-passage *g* in the body, and also the under side of the top, are thoroughly coated with some suitable material to prevent the liquid coming from in contact with the metal of the body or top.

The cooler is preferably placed in a tank or receptacle under a bar or counter, and the top and bottom, either or both, covered with ice, thus dispensing with ice-boxes or refrigerators.

The outside surface of the bottom of the body is formed with corrugations *p* for free passage of the water as the ice is melted, and the upper surface of the top can also be corrugated. These corrugations can be parallel, or, when desired for increased strength, the corrugations can be diagonal or angular, as shown in Fig. 6.

These coolers can be arranged, when desired, in series, as shown in Figs. 3 and 5, the corrugations on the top forming, in connection with the corrugations on the bottom, cooling chambers or passages *r* between the coolers. When thus arranged, the outlet of one cooler is connected with the inlet of the other cooler, as shown at *i*, Figs. 3 and 5.

I prefer, for convenience and expense of construction, to make the improved cooler square or rectangular; but it may be made oval, round, or any shape desired.

5 The cooler can be made of wood, iron, copper, or any preferred material, the lining of the liquid-passage preventing any contact with the material of the body.

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

15 The improved liquid-cooler, combining therein a body provided with an inner continuous liquid-passage having a concave lower inner surface and on its under surface corresponding parallel corrugations, a top having

on its upper surface corrugations, a series of lugs on the body and top, tightening screws or bolts, grooves near the edges of upper and lower surface of body and top, and a packing-ring fitted in said grooves, all said parts being arranged and adapted to operate substantially as described, and for the purposes set forth.

25 In testimony that I claim the foregoing I have hereunto set my hand this 19th day of December, 1890.

VALENTIN C. TRABOLD.

Witnesses:

E. L. SHERMAN,
ALFRED GARTNER.