

(No Model.)

E. SEITZ.
BEER COOLER.

No. 506,608.

Patented Oct. 10, 1893.

Fig 1

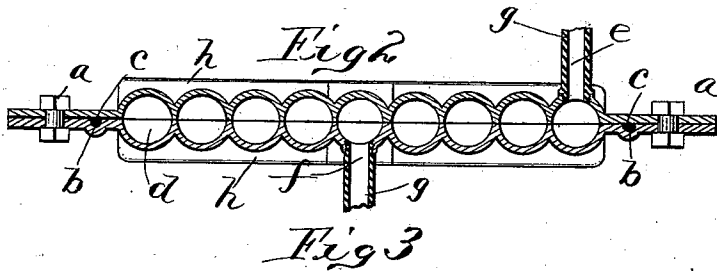
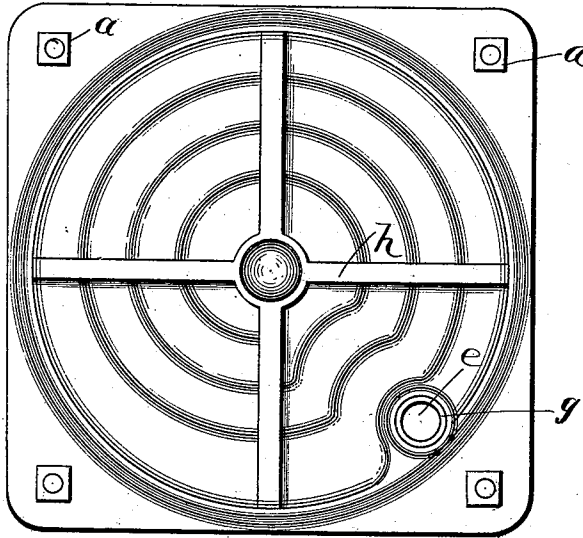
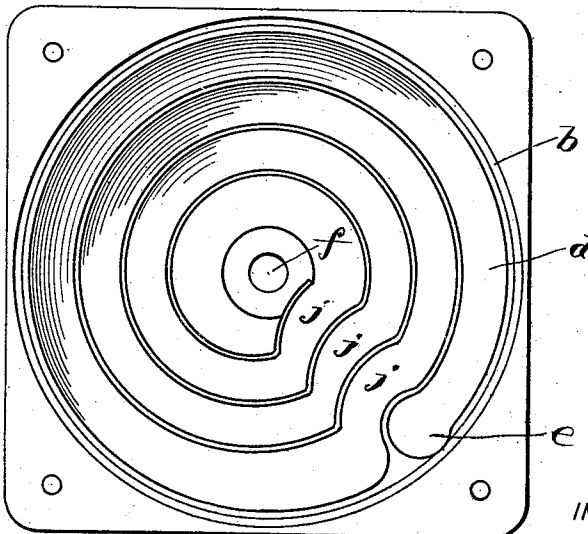


Fig 3



WITNESSES:

Charles M. Davis
Hubert E. Beck

INVENTOR

Edward Seitz
BY *O. E. Roffy*
ATTORNEY.

UNITED STATES PATENT OFFICE.

EDWARD SEITZ, OF PEORIA, ILLINOIS.

BEER-COOLER.

SPECIFICATION forming part of Letters Patent No. 506,608, dated October 10, 1893.

Application filed May 9, 1893. Serial No. 473,574. (No model.)

To all whom it may concern:

Be it known that I, EDWARD SEITZ, of Peoria, in the county of Peoria and State of Illinois, 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 of the invention, 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 part of this specification.

This invention relates to certain improvements in beer coolers.

15 The object of the invention is to provide an improved beer cooler for use in establishments where beer is to be dispensed and consumed on the spot, exceedingly cheap, simple and durable in construction and composed of a minimum number of parts whereby the beer will be thoroughly cooled in a comparatively short space of time, and which can be thoroughly cleansed whenever desired and without occupying much time.

25 The invention consists in certain novel features of construction and in combinations of parts more fully described hereinafter and particularly pointed out in the claims.

Referring to the accompanying drawings:—
30 Figure 1 is a plan view of the completed beer cooler. Fig. 2 is a cross sectional view thereof. Fig. 3 is a plan view of one of the sections of the cooler, looking at the inner surface thereof.

35 The cooler is essentially composed of two flat plates adapted to be bolted or otherwise secured together as by the bolts and nuts *a*. A circular groove *b*, is formed around the outer portion of one of the plates at the inner surface thereof to receive the packing gasket *c*, adapted to be expanded by the two plates when clamped together so as to form a tight joint between the two plates and near the outer edges thereof. Each plate is provided with a suitable groove or channel *d*, preferably semi circular in form as shown and spirally extending from the outer portion of the plate inwardly to the center thereof. The two grooves or channels in the plate are so formed as to register when the plates are placed together and thereby form the spiral passage or channel preferably circular in

cross section as shown extending from the outlet *e*, at the outer end of the channel, to the inlet *f*, at the center of the plate and inner end of the channel. A coupling *g*, is preferably screwed into the lateral openings through the plates and through said openings so that the pipes can be connected to the cooler to let in or take off the beer. The outlet preferably extends through the top plate, while the inlet preferably extends through the bottom plate, although I do not wish to limit myself to this specific arrangement. These thin metal plates are formed on their outside to correspond to the inside formation thereof, that is the plate is corrugated spirally on the outside corresponding to the internal channel, so as to form an extended cooling surface on the outside of the plate to come in contact with the ice or other cooling medium applied to the exterior of the cooler. To accomplish this result of exterior and interior corrugations the cooler can be formed by stamping the spiral channels in thin sheet metal, or if desired the plates can be cast with the exterior and interior corrugations.

The exterior of the plates are provided with braces *h*, extending radially from the center thereof. The inner edges of these braces are formed to fit the corrugations of the plate so as to extend down between the corrugations and thereby firmly hold the plates against bending or springing. When the plates are cast these bracing ribs can be cast with the plates, but if the plates are struck up or otherwise formed from sheet metal the ribs or braces can be formed separately and brazed or otherwise secured on the exterior of the plate. The bottom brace is formed of a central ring to fit around the inlet end of the cooler.

The corrugations are provided with the inward bends on the under side thereof, see *j*, which form lateral bends in the beer channel to retard the passage of the beer and act as deflectors or obstructions to retard the rapid flow of the beer and hold it for a longer period in contact with the cold metallic surfaces so as to act as agitators or stirrers to stir up the beer by deflecting it laterally and throwing it out of its course. These obstructions are preferably located in the plane between the inlet and outlet of the cooler.

The outer edges of the plates are flat so that

they can come together and form with the gasket the packing joint to prevent escape of beer and receive the bolt.

It is evident that various changes might be made in the forms, constructions and arrangements of the parts described without departing from the spirit and scope of my invention. Hence I do not wish to limit myself to the precise construction herein set forth, but consider myself entitled to all such changes as fall within the spirit and scope of my invention.

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

1. The beer cooler consisting of the two plates arranged to be bolted together, each plate being spirally corrugated on its outer side forming the spiral groove on its inner side, said grooves registering to form the spi-

ral beer passage, a duct through the center of one plate to the inner end of the passage, a duct through the other plate to the outer end of the passage, and packing between the outer portions of the plates surrounding the spiral corrugations, as set forth and shown.

2. A beer cooler formed of the two corrugated plates clamped together so that the corrugations register to form the spiral beer passage, said corrugations being laterally deflected on one side as set forth, and packing between the plates.

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

EDWARD SEITZ.

Witnesses:

THOMAS SHEPPERD,
M. C. DYKE.