

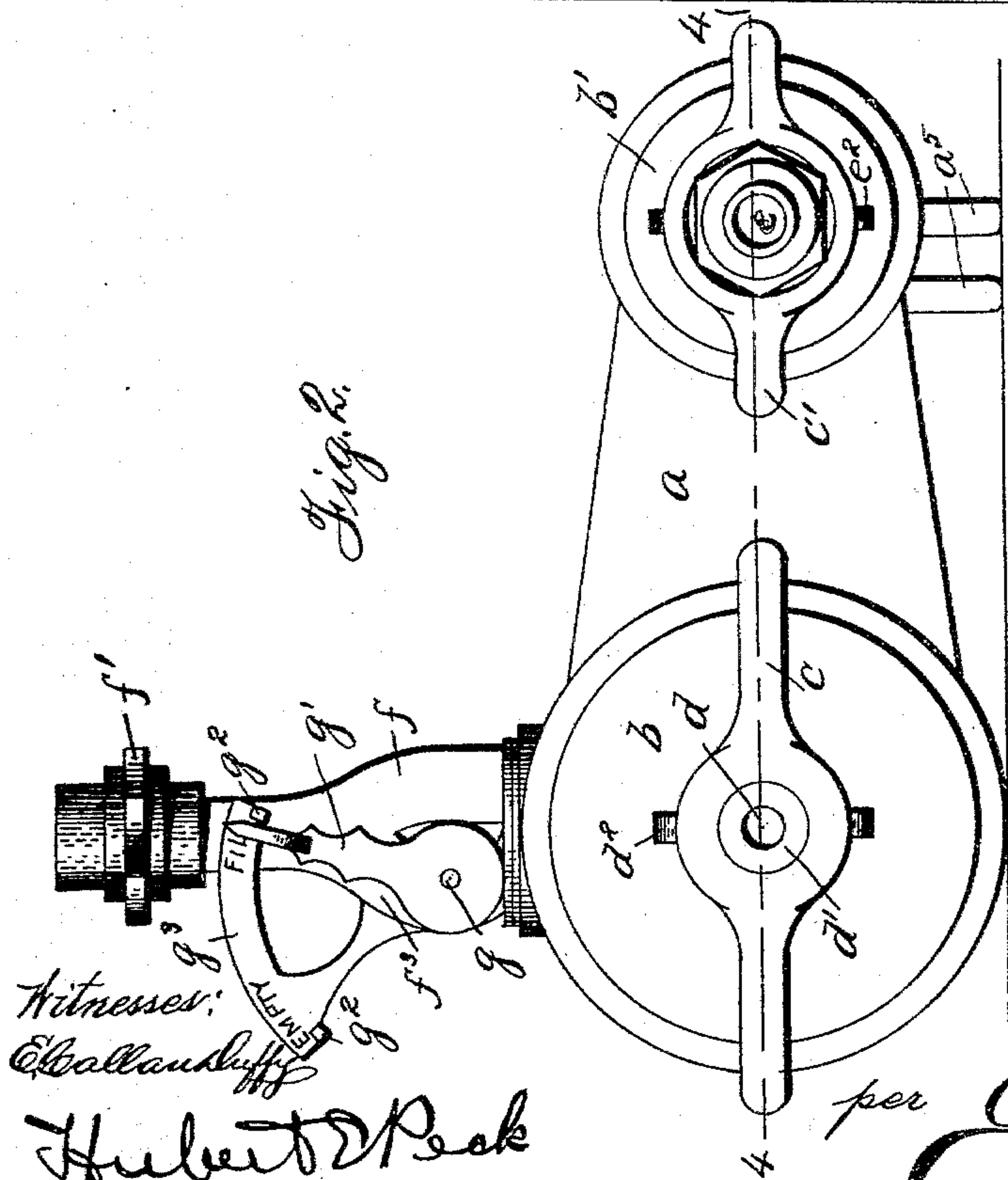
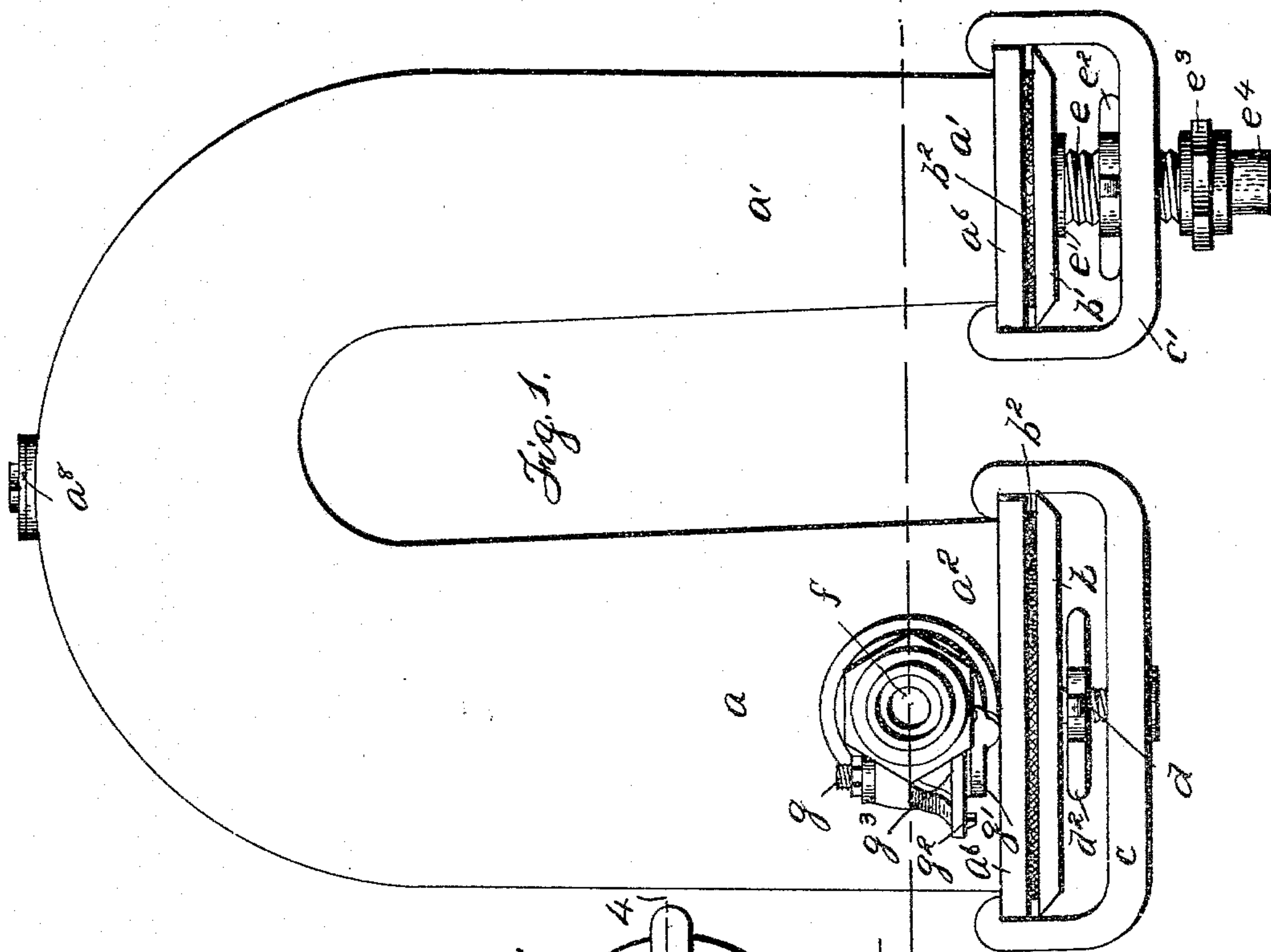
(No Model.)

2 Sheets—Sheet 1.

E. SEITZ.  
BEER COOLER.

No. 545,382.

Patented Aug. 27, 1895.



Witnesses:

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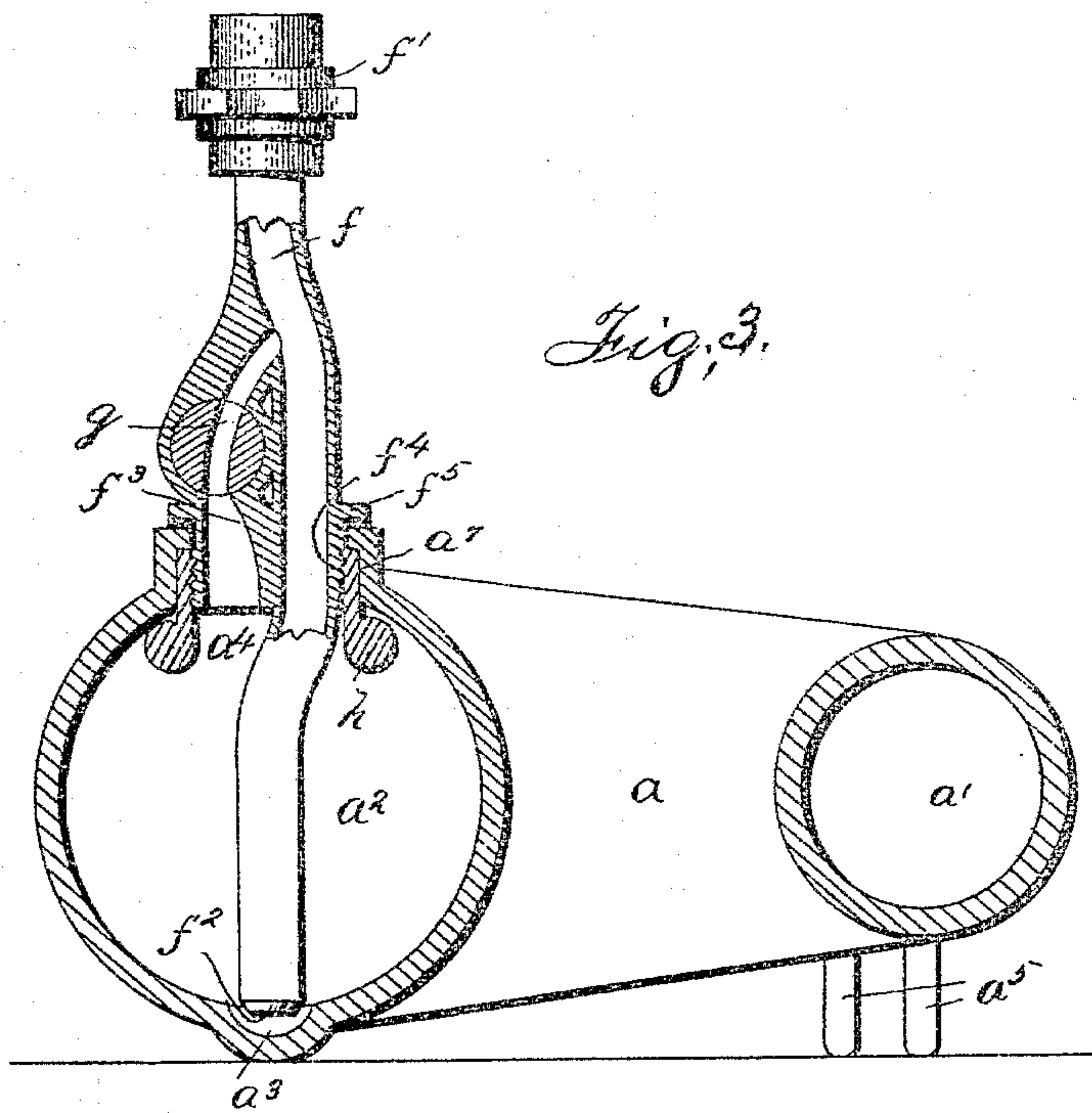
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2 Sheets—Sheet 2.

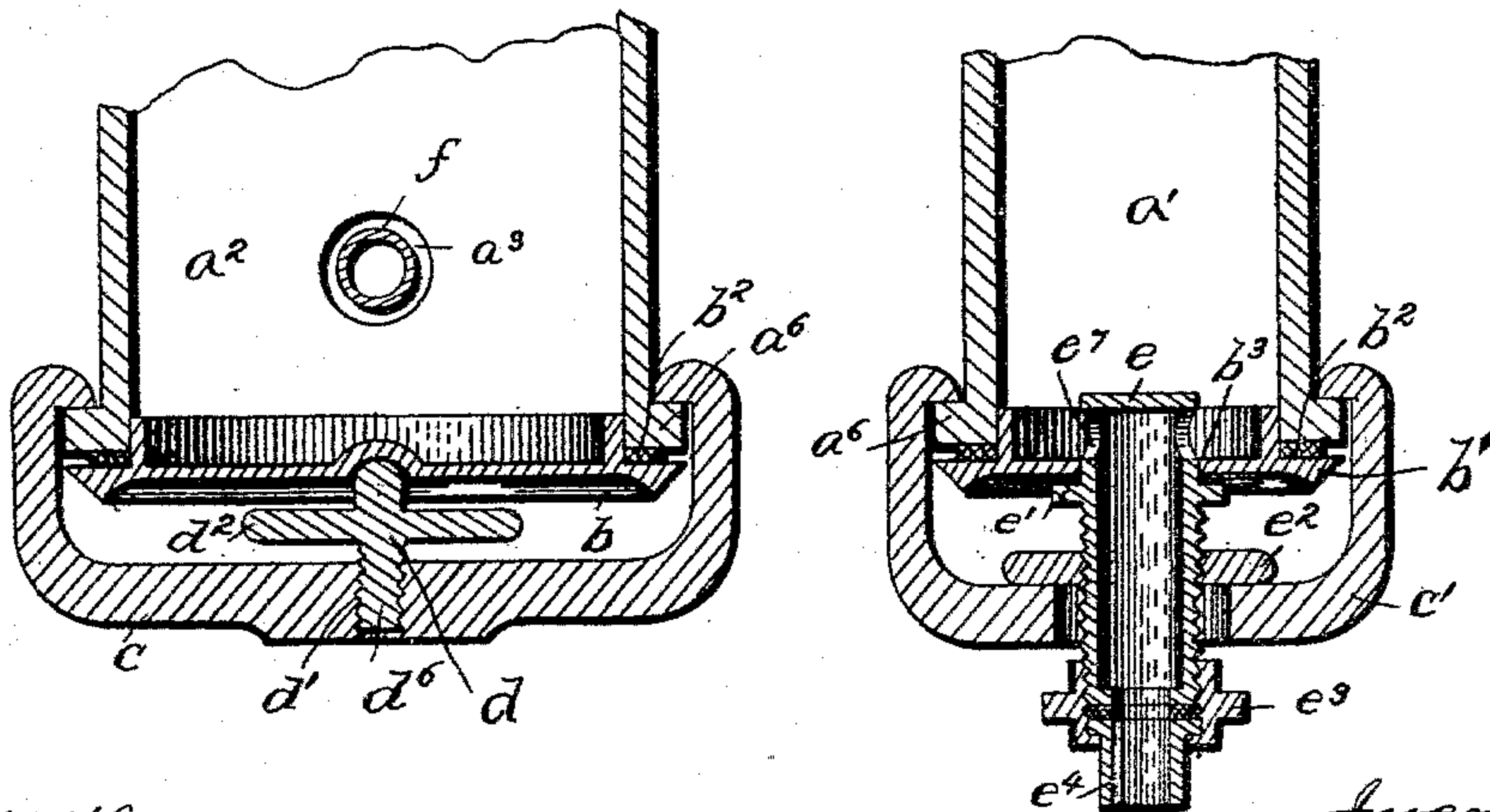
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*Fig. 4.*



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# UNITED STATES PATENT OFFICE.

EDWARD SEITZ, OF PEORIA, ILLINOIS.

## BEER-COOLER.

SPECIFICATION forming part of Letters Patent No. 545,382, dated August 27, 1895.

Application filed April 27, 1895. Serial No. 547,350. (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  
5 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 a beer-cooler simple, durable, and efficient in construction and which can be easily filled or emptied, as desired.

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

Referring to the accompanying drawings,  
25 Figure 1 is a top plan view of the cooler. Fig. 2 is a front end view thereof. Fig. 3 is a cross-section on the line 3 3, Fig. 1, the valve being adjusted to permit emptying of the cooler. Fig. 4 is a horizontal sectional view  
30 of the front ends of the cooler, taken on the line 4 4, Fig. 2.

In the drawings,  $a$  is the beer-cooler, here shown U-shaped and horizontally arranged, with the inlet end  $a'$  and the outlet end  $a^2$ .  
35 The said vessel preferably tapers from its small inlet end  $a'$  to its large outlet end  $a^2$ , so that the lowest portion  $a^3$  of the vessel is located at the outlet end, as is also the highest portion  $a^4$  of the interior of the vessel.  
40 The small inlet end of the vessel can be provided with suitable supporting legs or rests  $a^5$  to hold the vessel in its proper position. The discharge end of the vessel can have the downward bulge at its lowest point  $a^3$ , which  
45 also forms a rest for that side of the vessel.

The front ends of the vessel, which are preferably cast integral and suitably coated to prevent action of the beer thereon, are open and provided with the surrounding  
50 flanges  $a^6$ . Suitable covers  $b$  and  $b'$  are provided to close these two openings, respectively, and to fit therein with packing  $b^2$  in-

terposed between the ends of the vessel and the covers. The cover  $b$  at the large end of the vessel is secured and held in position by  
55 the U-shaped clamp  $c$ , having the inturned ends catching under the flange  $a^6$  of the vessel, and this clamp is held in position and the cover firmly held to form liquid-tight joint by means of the screw  $d$ , fitting in the  
60 depression in the outer surface of the cover, with its outer screw-threaded end in a threaded socket  $d'$  in the clamp  $c$ , and provided with turning projections  $d^2$ , so that by turning the screw or bolt  $d$  in one direction it will move  
65 by the threads toward the cap, and thereby tightly force the cover of the vessel and clamp the parts. It will thus be seen that the clamp and cover can be easily removed at any time to permit ready access to the interior of the  
70 vessel.

The cover  $b'$ , at the small end of the vessel, has a central opening  $b^3$ . The inlet-pipe  $e$  extends loosely through this opening  $b^3$ , with the flange  $e'$  bearing against the outer face of  
75 the cover  $b'$ , and suitably packed to prevent leakage.

The inner end of the pipe at the inner face of the cover preferably has a side outlet-opening  $e'$ , and the pipe is exteriorly threaded at  
80 its outer end beyond the flange  $e'$ . This pipe  $e$  extends loosely through an opening in the central portion of the clamp  $c'$ , passing over the cover  $b'$  and catching under the flange  $a^6$ , and the clamp-cover and pipe  $e$  are rigidly  
85 locked in position or loosened so that they can be released and separated and free access to the interior of the vessel permitted by the nut  $e^2$ , on the threaded portion of the pipe  $e$ , between the clamp and the cover, so that by  
90 screwing the nut outwardly against the clamp the pipe  $e$  is forced inwardly against the cover and there locks the cover to form a liquid-tight joint with the vessel.

The pipe  $e^4$ , from the beer-keg or other  
95 sources of supply, can be secured to the inlet-pipe  $e$  by any suitable coupling, such as coupling  $e^3$ . At the upper side of its large front end  $a^2$  the vessel is provided with opening  $a^7$ , to receive the outlet-pipe  $f$ , at its outer end  
100 with suitable coupling means  $f'$  to unite thereto the pipe to the faucet. This pipe  $f$  extends down through the top of the large end of the vessel to the lowest portion thereof,



with its low open end  $f^2$  in the lowest portion  $a^3$  of the vessel. The intermediate portion of the pipe is provided with a branch or by-way  $f^3$ , opening into the main portion of the pipe  $f$  above the beer-vessel, and from thence extending downwardly with its lower open end opening into the highest portion  $a^4$  of the interior of the vessel. The valve  $g$  is arranged in this branch or by-way  $f^3$ , above and at the exterior of the beer-vessel. This valve is arranged to open and close said by-way and at its front end is provided with the lateral handle  $g'$ , movable between the stops  $g^2$ , at opposite ends of the bracket  $g^3$  on the exterior of the cooler, secured to the pipe  $f$  and branch  $f^3$ . The word "empty" is located on this bracket near the left-hand stop, at which position the handle  $g'$  is located when the valve closes the by-way or branch, and the word "filled" can be arranged at the opposite stop, at which the handle  $g'$  is located when the valve opens the by-way.

The portion of the pipe  $f$  and branch pipe  $f^3$  passing through the opening  $a^7$  is formed into the exteriorly-threaded plug  $f^4$ , having top flange  $f^5$  to bear down on the upper surrounding wall of opening  $a^7$ , with interposed packing to form a tight joint, and said outlet-pipe is clamped rigidly and tightly in position by the screw-nut  $h$ , formed to screw on the lower end of said plug portion  $f^4$  from the interior of the beer-vessel, and with an opening  $a^7$ , and thereby tightly clamp the parts therein and draw down the flange  $f^5$  to form the liquid-tight joint. Access to these interior parts can be had through the front opening at the large end of the vessel, so that the outlet-pipe can be easily detached and removed when desired.

The rear end of the beer-vessel can have the opening closed by screw-plug  $a^8$ , so as to permit ready access to the inner portion of the cover of the beer-vessel for cleansing or other purposes.

In use this vessel is placed in a suitable ice box or receptacle, and by having both ends of the vessel side by side the same can be more easily coupled with the supply-pipe and discharge-pipe, and the device can be more readily operated and controlled and used in the ordinary form of ice-boxes.

After the empty beer-vessel has been placed in position and coupled up, the valve-handle  $g'$  is moved to the right-hand stop, or to the position to open the by-way  $f^3$ , and the pressure is then applied to the beer in the keg and the same is forced into the cooling-vessel and completely fills the same and forces the beer out through the vessel and faucet when the faucet is open, the beer passing out through the main pipe  $f$  and the by-pass  $f^3$ . This by-pass or opening from the main discharge-pipe permits a complete filling of the beer-vessel with the beer, and the by-pass is kept open so long as the beer in the keg lasts and it is desired to keep the vessel full of beer. When it is desired to empty the vessel, the handle  $g'$  is

moved to its limit in the opposite direction and so as to close the by-way  $f^3$ . The beer is then drawn out at  $f^2$  from the lowest portion of the interior of the beer-vessel, so that the vessel can be completely emptied.

While I claim a peculiar form of beer-vessel as a material feature of advantage and a point of novelty, yet I do not wish to limit myself to the other features of my invention in connection with such a peculiar-shaped vessel, as they can be employed in beer-coolers of other shapes; and it is also evident that various changes might be made in the forms, arrangements, and constructions of the parts described without departing from the spirit and scope of my invention. Hence I do not wish to limit myself to the exact 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. A beer cooler comprising the U-shaped vessel provided with open ends and closing means therefor, and with beer inlet and outlet ducts at opposite ends of the vessel respectively, substantially as described.

2. A beer cooler comprising the U-shaped vessel having the beer inlet and outlet at opposite ends respectively, the highest and lowest portions of the interior of the vessel at the outlet end thereof, substantially as described.

3. A beer cooler comprising the U-shaped vessel tapering and increasing in size from its inlet to its outlet end, substantially as described.

4. A horizontally disposed U-shaped beer cooler vessel gradually increasing in size from its inlet to its outlet end and having the highest and lowest portions of its interior at its outlet end, substantially as described.

5. A beer cooler having an open end, a cover for the same having an opening, a pipe passing through said opening and bearing against the outer face of the cover and exteriorly threaded, a clamp yoke through which the pipe extends, and a locking nut on the pipe bearing against the clamp, substantially as described.

6. The U shaped beer cooler body tapering from one end to the other and provided with rests, as  $a^5$  and bottom depression  $a^3$ , substantially as described.

7. The beer cooler body having the open exteriorly flanged ends, caps closing the same, the yokes hooking under the flanges and passing over the caps and provided with screw clamping means to force the caps against and closing said ends, an inlet pipe passing through the closure at one end of the body, a top outlet opening near the opposite end of the body, and the beer outlet pipe passing down through said top opening, substantially as described.

8. The combination, in a beer cooler, of a hollow cooler body having a beer inlet open-



ing, a top opening in said body, a plug fitted therein and forming a tight joint, a beer outlet pipe passing down through the plug to the bottom of the body, a branch duct from said  
5 pipe at the exterior of the body and extending down through the plug and opening into the top of said body, a turn plug in said branch at the exterior of the body and provided with a handle, and a bracket carried by said pipes

and having end stops between which the handle moves, substantially as described.

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

EDWARD SEITZ.

Witnesses:

J. M. MORSE,  
PHILLIP GREBE.