

No. 876,823.

PATENTED JAN. 14, 1908.

C. MELDAU.
COOLING COIL FOR BEER APPARATUS.

APPLICATION FILED NOV. 13, 1906.

2 SHEETS—SHEET 1.

Fig: 1.
2

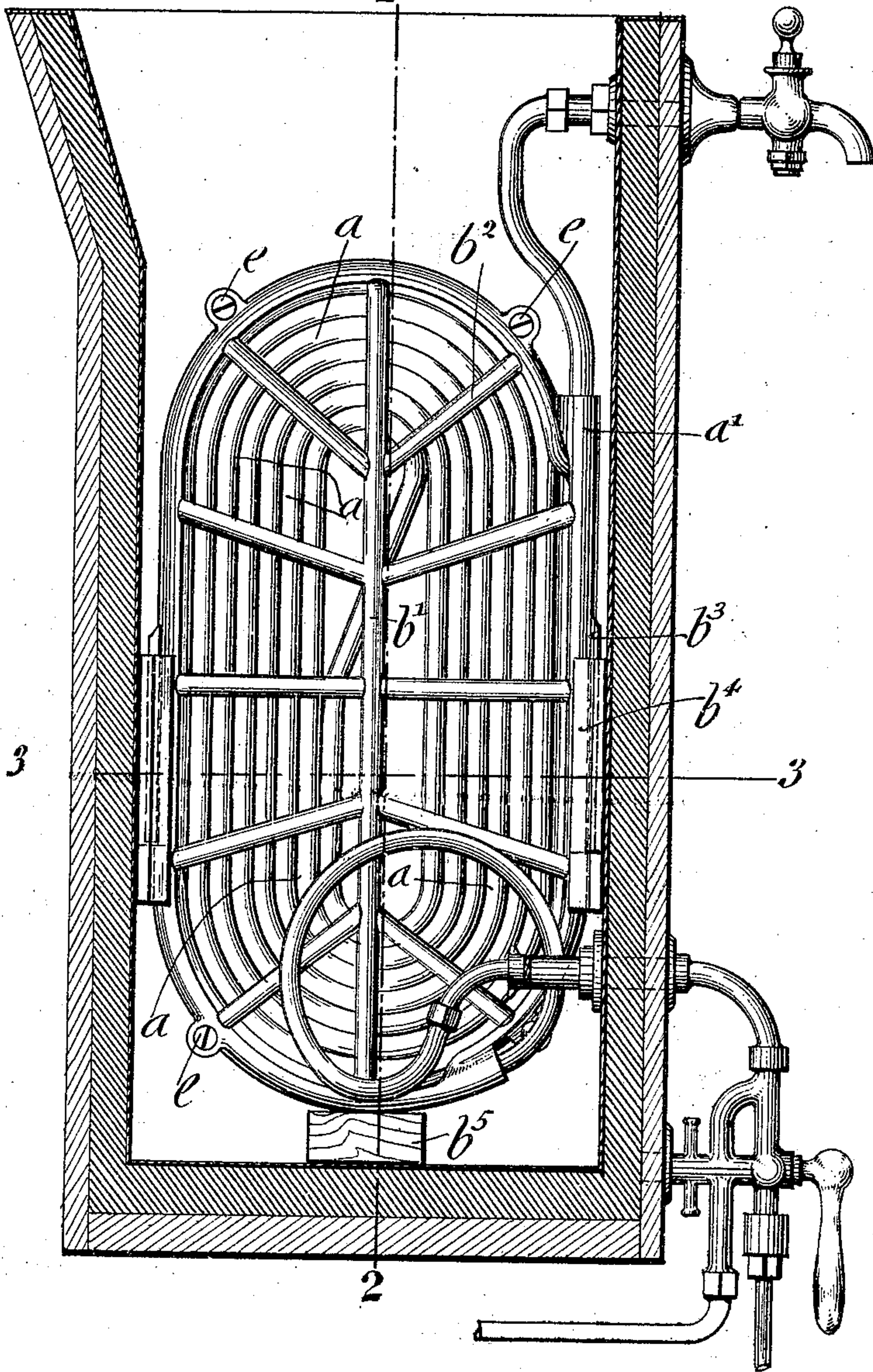


Fig: 2.

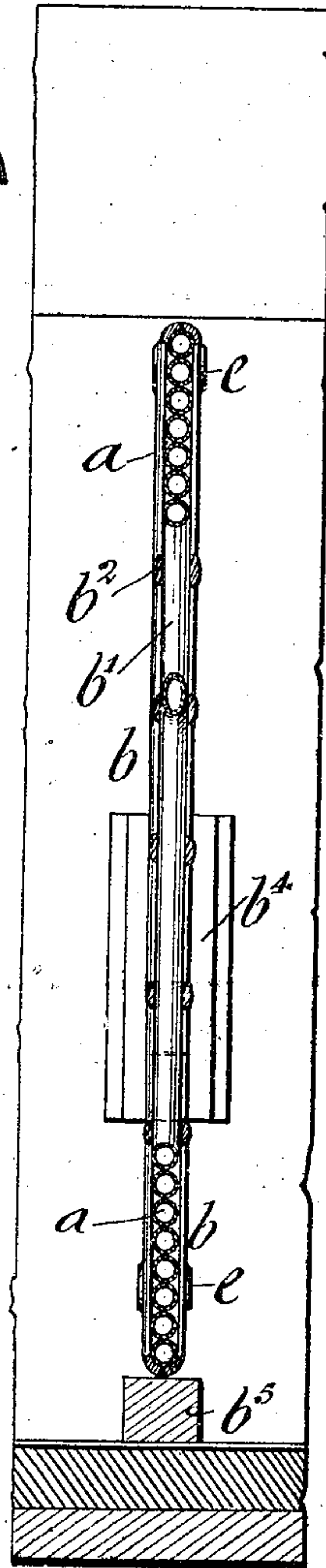
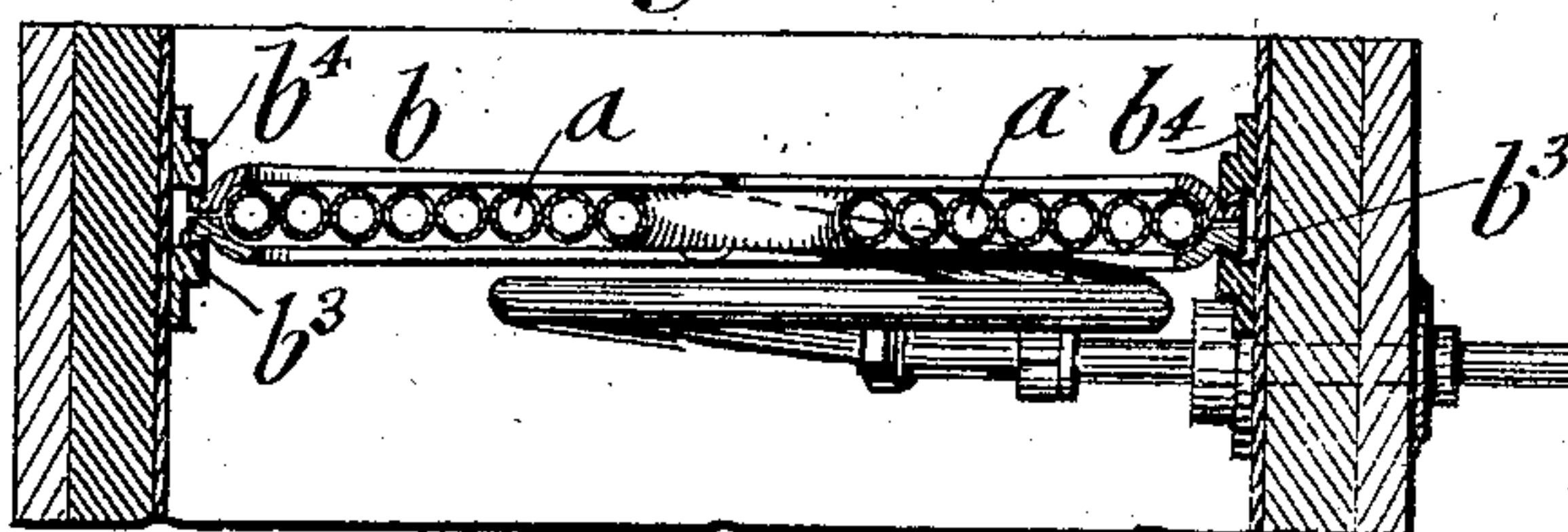


Fig: 3.



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2 SHEETS—SHEET 2.

Fig: 5.

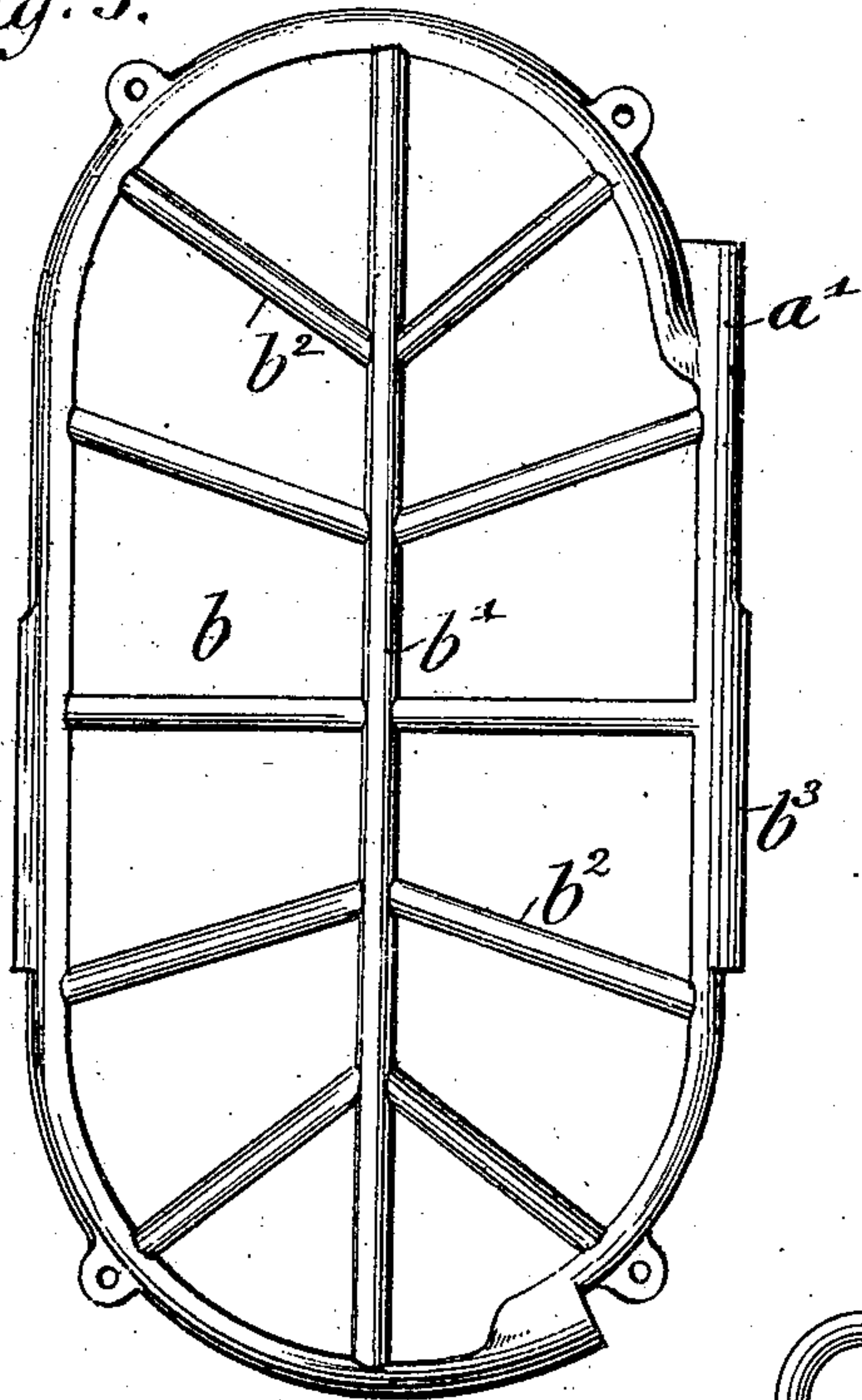


Fig: 6.

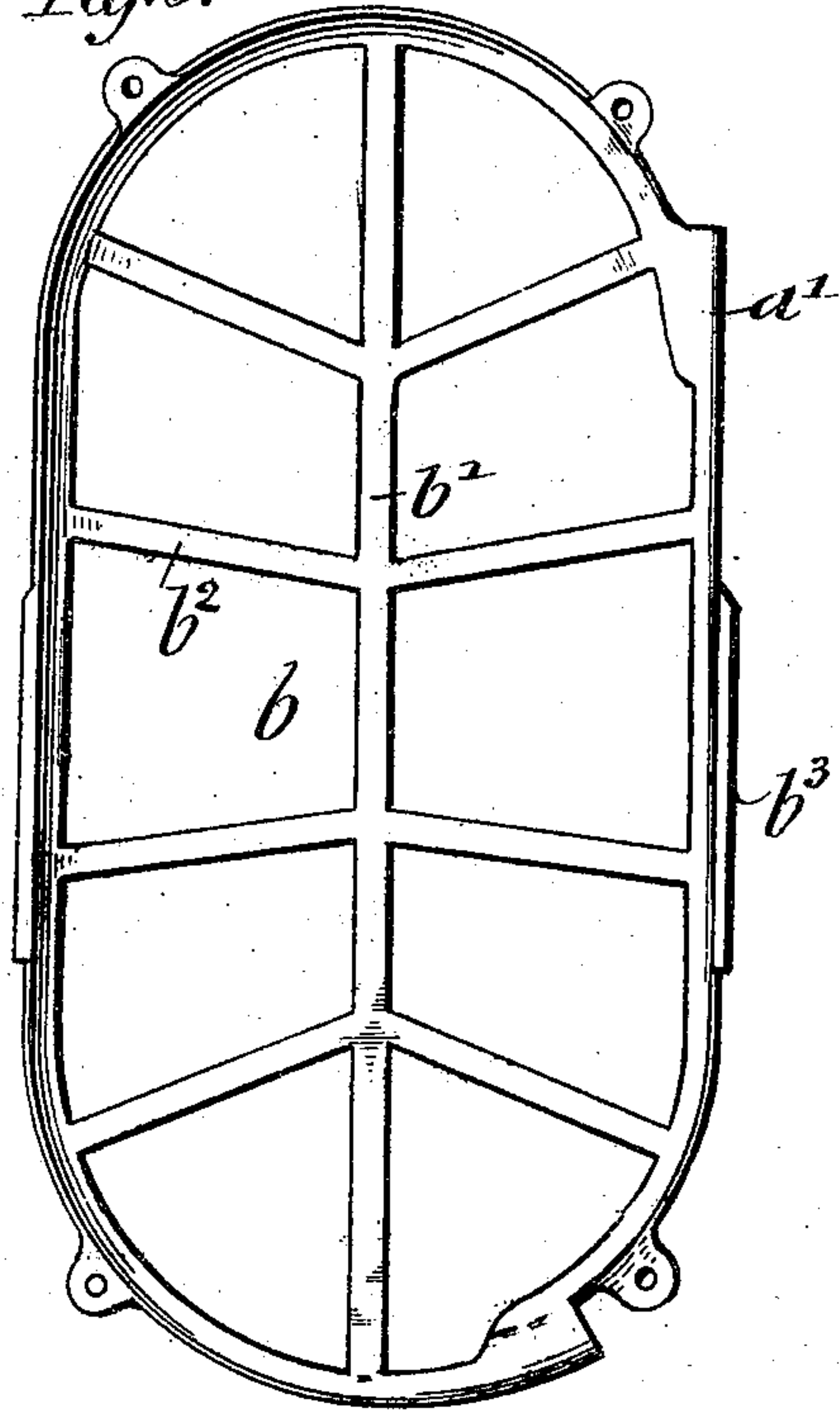


Fig: 4.

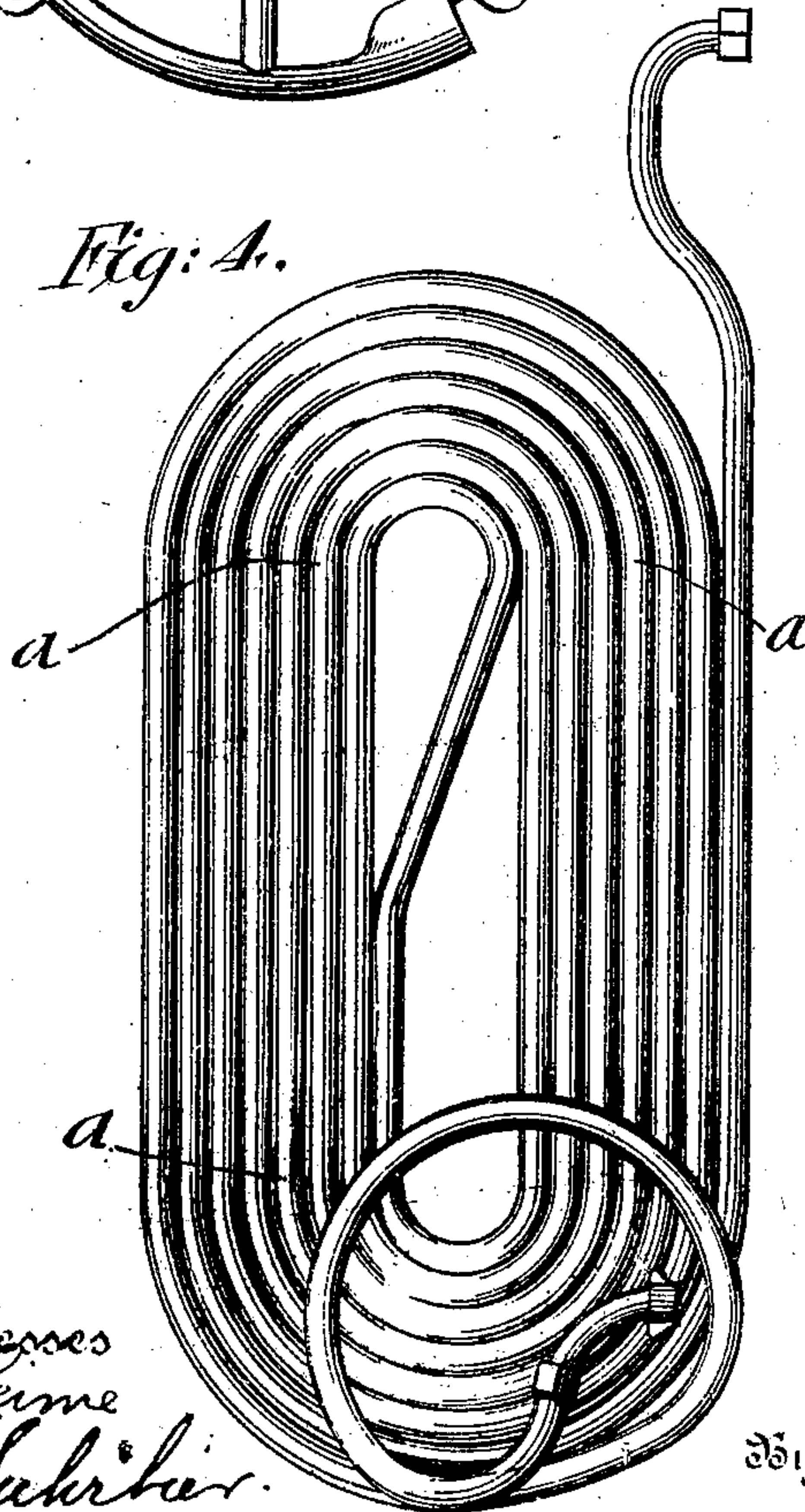


Fig: 7.

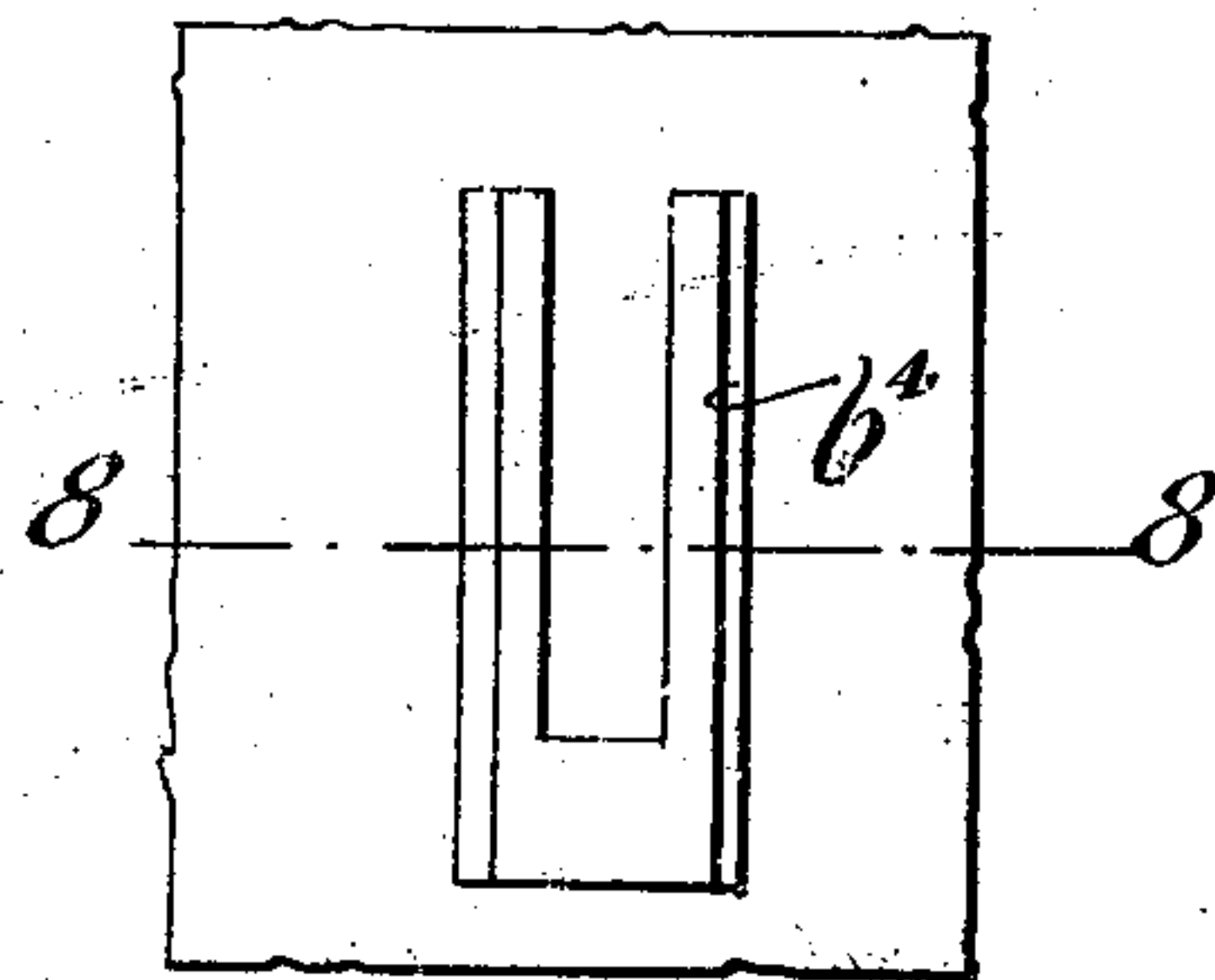


Fig: 8.



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UNITED STATES PATENT OFFICE.

CHARLES MELDAU, OF NEW YORK, N. Y.

COOLING-COIL FOR BEER APPARATUS.

No. 876,823.

Specification of Letters Patent.

Patented Jan. 14, 1908.

Application filed November 13, 1906. Serial No. 343,253.

To all whom it may concern:

Be it known that I, CHARLES MELDAU, a citizen of the United States, residing in New York, in the borough of Manhattan, county and State of New York, have invented certain new and useful Improvements in Cooling-Coils for Beer Apparatus, of which the following is a specification.

This invention relates to an improved cooling-coil for beer apparatus which is so constructed that the same can be separately inserted and supported in the ice-chamber of the beer apparatus in such a manner that it can be readily removed from time to time for exterior cleaning by disconnecting its ends from the beer supply-pipe and dispensing-faucet, and which can be entirely surrounded by broken ice so that the beer passing through the coil is cooled in a reliable manner before the same is drawn off through the dispensing-faucet; and for this purpose the invention consists of a cooling-coil for beer apparatus, which comprises a coil, a frame provided with two semi-sections which extend around the circumference of the coil and which is provided with ingoing and outgoing nipples for the ends of the coil, and with a longitudinal center and lateral side ribs for protecting the coil, the semi-sections of the frame being held on the coil by a screw-connection at the upper and lower ends.

The invention consists further of means attached to the inner walls of the ice-chamber so as to support the coil, in connection with a bottom block, in vertical position in the ice-chamber and permit the removal of the same for cleaning and repairing whenever this is required.

In the accompanying drawings, Figure 1 represents a vertical transverse section of the ice-chamber of the beer apparatus, showing my improved cooling-coil in side-elevation, Fig. 2 is a vertical transverse section on line 2, 2, Fig. 1, Fig. 3 is a horizontal section on line 3, 3, Fig. 1, Fig. 4 is a side-elevation of the cooling-coil shown as detached from the supporting-frame, Figs. 5 and 6 are elevations of the supporting-frame of the cooling-coil, showing the same from the outside and inside, and Figs. 7 and 8 are respectively a detail elevation and a horizontal section on line 8, 8, Fig. 7, of the stationary guide-ways in the ice-chamber for holding the cooling-coil in position after the same is placed in position.

Similar letters of reference indicate cor-

responding parts in the different figures of the drawings.

Referring to the drawings, *a* represents a cooling-coil which is bent in the well-known manner from lead pipe with a number of elongated convolutions side by side, the same being arranged intermediately between the outgoing and ingoing ends, the ingoing end being connected by a coupling with the beer supply-pipe and the controlling stop-cock, while the outgoing end is connected by a coupling with the dispensing-faucet. The coil *a* is supported and inclosed by a cast-iron frame *b* which is made of two longitudinal semi-sections that are provided with concave portions at their circumference and with a center longitudinal rib *b*¹ and shorter ribs *b*² extending from said center rib to the circumferential portions of the supporting-frame, the semi-sections of the supporting-frame being made in one metal casting and connected with each other, so as to firmly hug the coil *a*, by fastening-screws *e* which pass through perforated ears on the circumferential portions of the supporting-frame. At the points where the ingoing and outgoing ends of the coil *a* enter the protecting-frame a sleeve-shaped portion *a*¹ is formed. The circumferential portion of the protecting-frame *b* is provided at opposite sides with ribs *b*³ which are inserted into stationary guide-pieces *b*⁴ attached to the inner walls of the ice-chamber, so that the entire coil can be dropped into the same in vertical position, the lower end of the coil resting on a bottom block *b*⁵ or on the bottom of the ice-chamber, as desired, while the side guide-pieces *b*⁴ hold the cooling-coil *a* firmly in position. The ends of the coil are then connected with the beer supply-pipe and with the dispensing-faucet by which the beer is drawn off. The supporting-frame protects the coil at both sides so as to prevent any injury or damage to the coil by the lumps of ice which are dropped between the coils in the ice-chamber, each coil serving to supply beer or other fermented liquid to a dispensing-faucet at the bar.

Whenever the cooling-coils are to be cleaned at the outside, the connecting-couplings are uncoupled from the ingoing and outgoing ends of the coils and the same removed from the guides and the ice-chamber, so that the same can be readily cleaned by means of a brush at both sides and afterwards placed again in the ice-chamber and

connected with the beer supply-pipe and dispensing-faucet so as to be ready for use.

My improved cooling-coil for the beer apparatus has the advantage that the same
5 can be placed into the ice-chamber in vertical position, each cooling-coil being a separate element for itself, the space between a number of cooling-coils being used for filling with broken ice up to the top of the coil-box. As
10 the coils are packed in ice, an effective cooling action is exerted by the same on the liquid as it passes through the coil to the faucet. The vertical arrangement, in place of the horizontal arrangement heretofore in
15 use, permits also the arrangement of a longer coil for each faucet, and thereby a more effective cooling action on the liquid passing through the same is obtained.

Having thus described my invention, I claim as new and desire to secure by Letters 20 Patent:

A supporting-frame for a cooling-coil embodying opposing integral sections, each consisting of an outer rim-portion having sleeve-shaped portions to embrace the inlet and 25 outlet ends of the coil and provided with guide-ribs at its side-edges, a longitudinal center rib, and lateral ribs connecting said center rib with said rim-portion.

In testimony, that I claim the foregoing as 30 my invention, I have signed my name in presence of two subscribing witnesses.

CHARLES MELDAU.

Witnesses:

PAUL GOEPEL,
JOHN A. E. WARD.