

L. D. BIERBACH.
Swimmer for Cooling Beer.

No. 216,550.

Patented June 17, 1879.

Fig. 1.

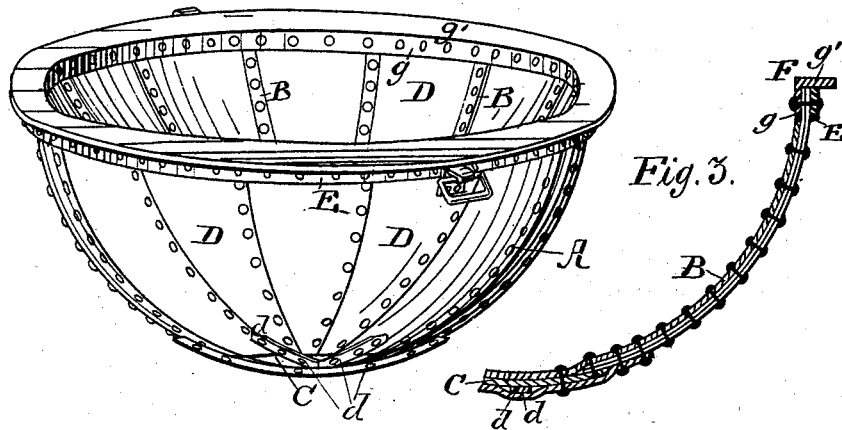
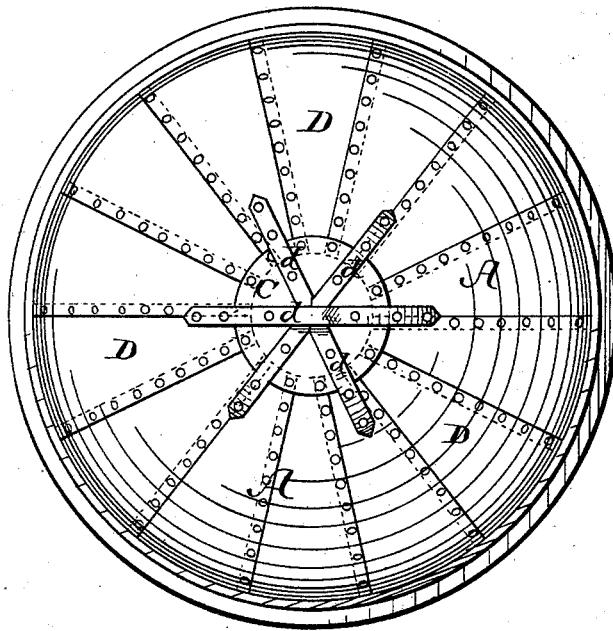


Fig. 2.



Witnesses:
George
D. Bowl

Inventor:
Louis D. Biersach,
by *M. Daily*
his Attorney.

UNITED STATES PATENT OFFICE.

LOUIS D. BIRSACH, OF MILWAUKEE, WISCONSIN.

IMPROVEMENT IN SWIMMERS FOR COOLING BEER.

Specification forming part of Letters Patent No. **216,550**, dated June 17, 1879; application filed April 22, 1879.

To all whom it may concern:

Be it known that I, LOUIS D. BIRSACH, of the city and county of Milwaukee, State of Wisconsin, have invented certain new and useful Improvements in Swimmers for Cooling Beer, of which the following is a specification, reference being had to the accompanying drawings, making part of the same.

My invention has relation to the cooling of beer by means of a receptacle to be filled with ice placed in the tub and allowed to float therein.

My invention consists in a swimmer constructed with a plate or plates extending from the rim on one side down to the bottom within the body of the swimmer, and up again to the rim on the other side, and also in a ring of angle-iron, clasping between it and outside band the rim of the body of the swimmer.

Figure 1, is a perspective view of my improved swimmer. Fig. 2 is a bottom view, and Fig. 3 is a sectional detail view.

My improved swimmer is semi-spherical in shape, hollow to receive the ice, and varying in size from twenty-eight to forty inches across its largest diameter.

In view of the rough usage to which these swimmers are subjected, and the fact that they must be made principally of sheet metal, it is necessary for them to possess every element of strength that can be put into them. To this end, therefore, have I devised the following construction.

A is the body of the swimmer, made up of tapering plates extending from top to bottom. These plates overlap and are riveted to each other, and at proper or such intervals as may be deemed necessary I extend a strip of wrought-iron, B, from the top of one side of the body A to the top of the other side, and coincident with the overlapping of two pairs of the plates D, and the lowest part of this strip I attach to the bottom C, which is a mere disk of sheet metal. To this bottom is also attached, by means of rivets, the lower ends of the plates D, and over the whole, on the outside, I cross wrought-iron strips *d*, which I rivet firmly to the structure. Then around the outside of the plates D, at the top, I place a band, E, of wrought-iron, and over the whole I place a ring of angle-iron, F, in such a position that one flange, *g*, of it will project on the inside of the plates, and the other, *g'*,

rest on top thereof. Through this, the flange *g*, plates D, and the outer band rivets are then passed, and by them the whole bound securely together, forming a rim for protecting the edges of the body and sustaining the structure against any pressure its contents might exert.

The swimmers in use before my improvement was made had only a rim of wire, over which the material of which the body was made was turned, and practice has proved that these are of insufficient durability, as the swimmers have to be scoured frequently, and in this operation they have to be turned up on edge and revolved with the rim resting on the floor, which is generally of stone or brick, whereby the said rim is worn away by the friction, and the wires so exposed that in time they spring out of place and the entire swimmer is rendered worthless.

In my device the flange *g'* of the angle-iron rests on the floor and takes the wear, which it can withstand for a considerable longer period than rims previously used, and when they are entirely worn out may be easily replaced on the old swimmer at very little expense.

A swimmer constructed according to my invention will outlast two of any other construction now known to me without repairing, and without any advance on the cost of those now on the market.

I claim as my invention—

1. In a swimmer for cooling beer, the combination of the wrought-iron strip or strips B, extending down along the inside of the vessel with the plates D and the bottom, to which they are riveted, as set forth.

2. The combination, in a beer-swimmer, of the angle-iron F, band E, and the plates composing the body of the swimmer, as set forth.

3. A swimmer for cooling beer, having bottom C, re-enforced by strips of wrought-iron, body A, composed of overlapping plates strengthened by strip or strips B, and the angle-iron F E, all combined as and for the purpose set forth.

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

LOUIS D. BIRSACH.

In presence of—

E. H. BOTTUM,
S. S. STOUT.