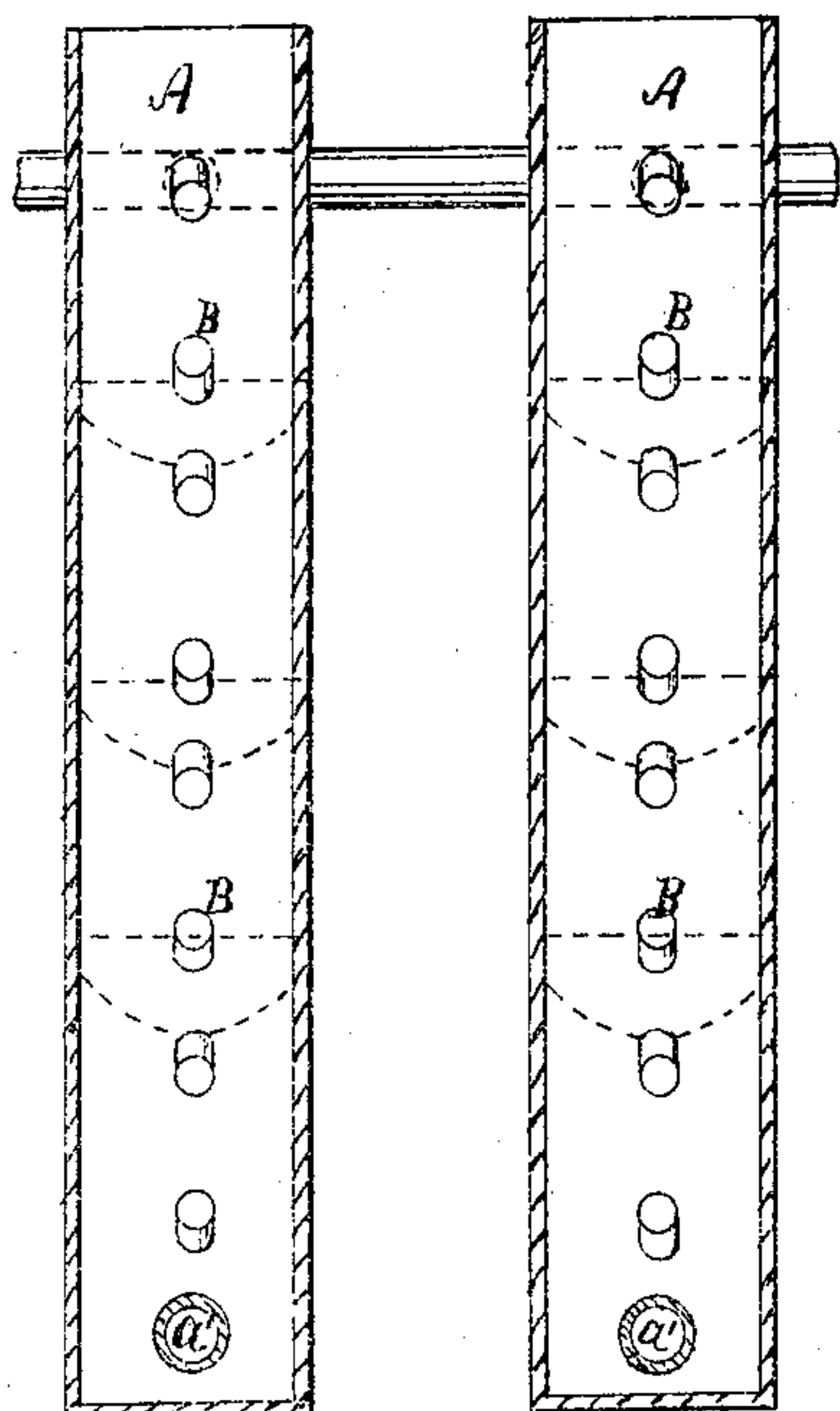


Fig I



BEER COOLER.

HENRY HEIMERLE.

72733

BUFFALO N.Y.

PATENTED
DEC 31 1867

Fig II

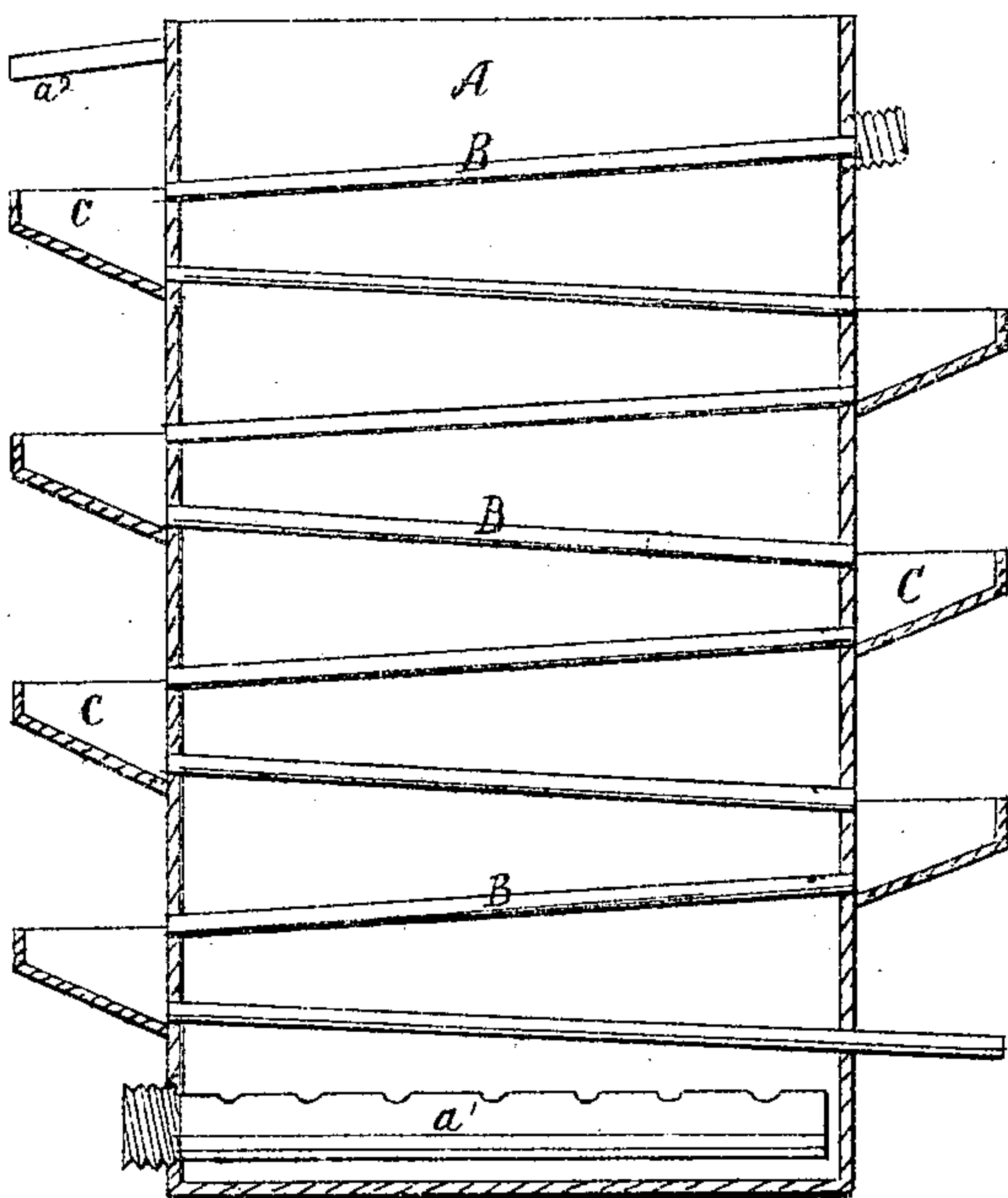
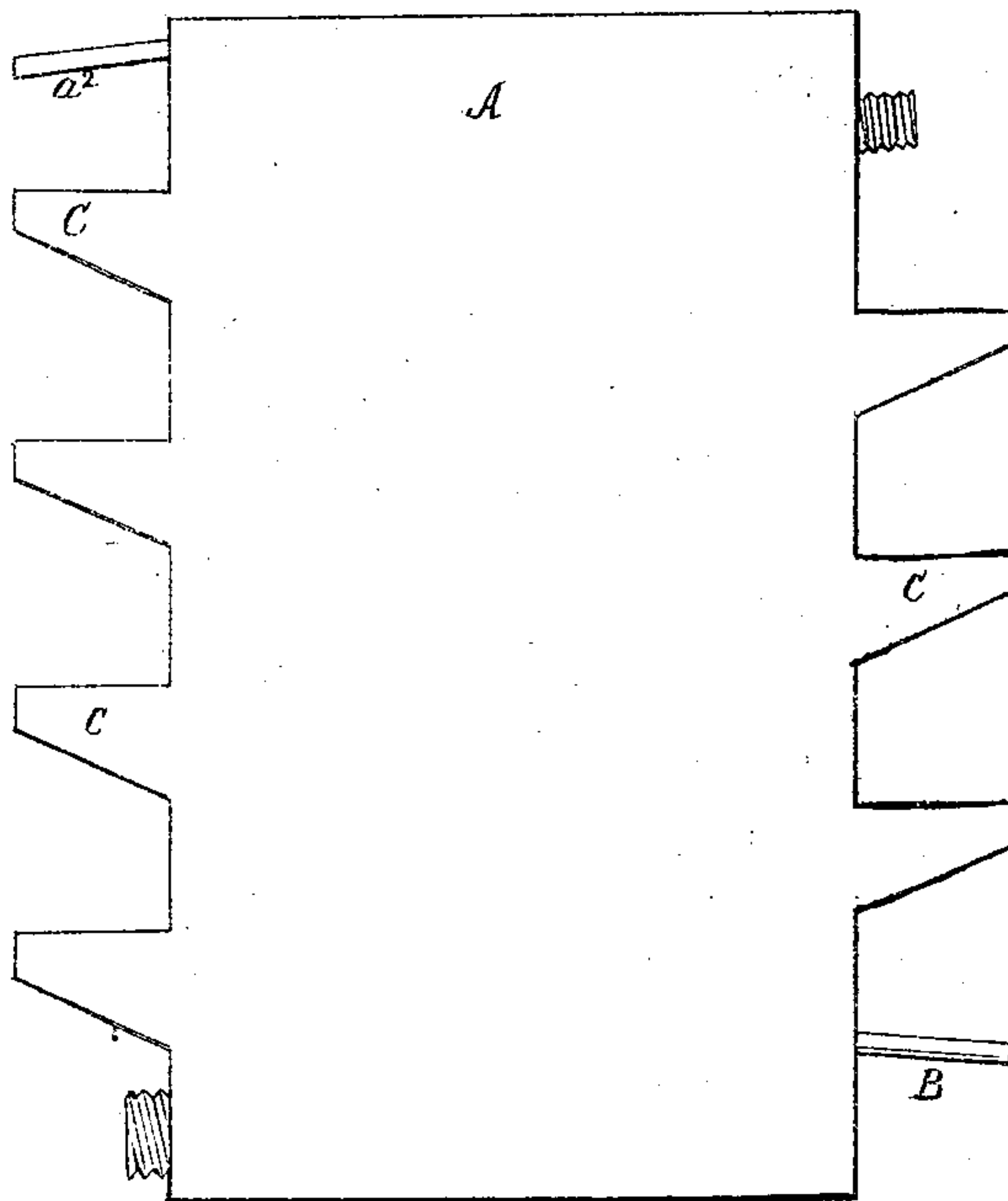


Fig III



Wm A Krag
B. H. Muehle

WITNESSES.

Henry Heimerle

INVENTOR.

United States Patent Office.

HENRY HEIMERLE, OF BUFFALO, NEW YORK.

Letters Patent No. 72,733, dated December 31, 1867.

IMPROVED BEER-COOLER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, HENRY HEIMERLE, of the city of Buffalo, county of Erie, and State of New York, have invented a certain new and improved Beer-Cooler; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings making a part of this specification, in which—

Figure I is a vertical section,

Figure II is a side elevation,

Figure III is a transverse vertical section of my improved coolers.

The nature of my invention consists, first, in the combination and arrangement of a flat tank or reservoir, standing on end, and filled with cold water, with a pipe, or series of pipes or conductors placed therein, at a slight incline, in such manner that the liquid to be cooled may, when introduced into the top end of said pipes, slowly descend through the conductors to the bottom of the tank, and during such descent be cooled; second, in the combination and arrangement, with said tank and conductors, of a number of open troughs arranged upon the outside of the tank, and connected by means of the pipes or conductors in such manner that the liquid to be cooled, in its descent, will intermittently be exposed to the atmosphere for evaporation and condensation.

Letters of like name and kind refer to like parts in each of the figures.

A represents an oblong tank or reservoir, which is placed on end, and the dimensions of which will be about eight feet high, three feet long, and four inches wide. This tank is made portable, and on account of its peculiar shape does not occupy a very large space. This tank is filled with cold water from a supply-tank placed at an elevation above the top of the tank A, which supply-tank is connected with the bottom of the tank A by means of a pipe, as shown at a^1 . a^2 is a discharge-pipe near the top of the reservoir A, through which the water is carried off from the surface. The water, as it enters at the bottom, and becomes warm by contact with the hot conductors, will rise to the surface and be discharged through the pipe a^2 . B B represent the pipes or conductors, which contain the liquid to be cooled. They are arranged one above the other, nearly parallel, with a slight inclination to one side, in such manner as to allow the liquid to descend slowly from the top to the bottom. These conductors may either be connected by elbows or semicircular joints within the tank, as shown by red dotted lines in Fig. I, or they may open at each end into the top and bottom of a trough or open box, C, firmly connected to the outside of the tank A. The liquid to be cooled will, in its descent, be intermittently introduced into these open troughs, and by this means the vapor collected in the pipes B will be condensed or allowed to escape.

In Fig. III, two of these coolers are represented as connected together, which is rendered necessary in large breweries or distilleries, where the capacity of one cooler is insufficient.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination and arrangement of the upright tank A with the inclined pipes or conductors B, for the purpose and substantially as herein described.
2. The combination and arrangement of the tank A, conductors B, and open troughs C, constructed as and for the purpose herein described.

HENRY HEIMERLE.

Witnesses:

WM. A. KRAG,
B. H. MUEHLE.