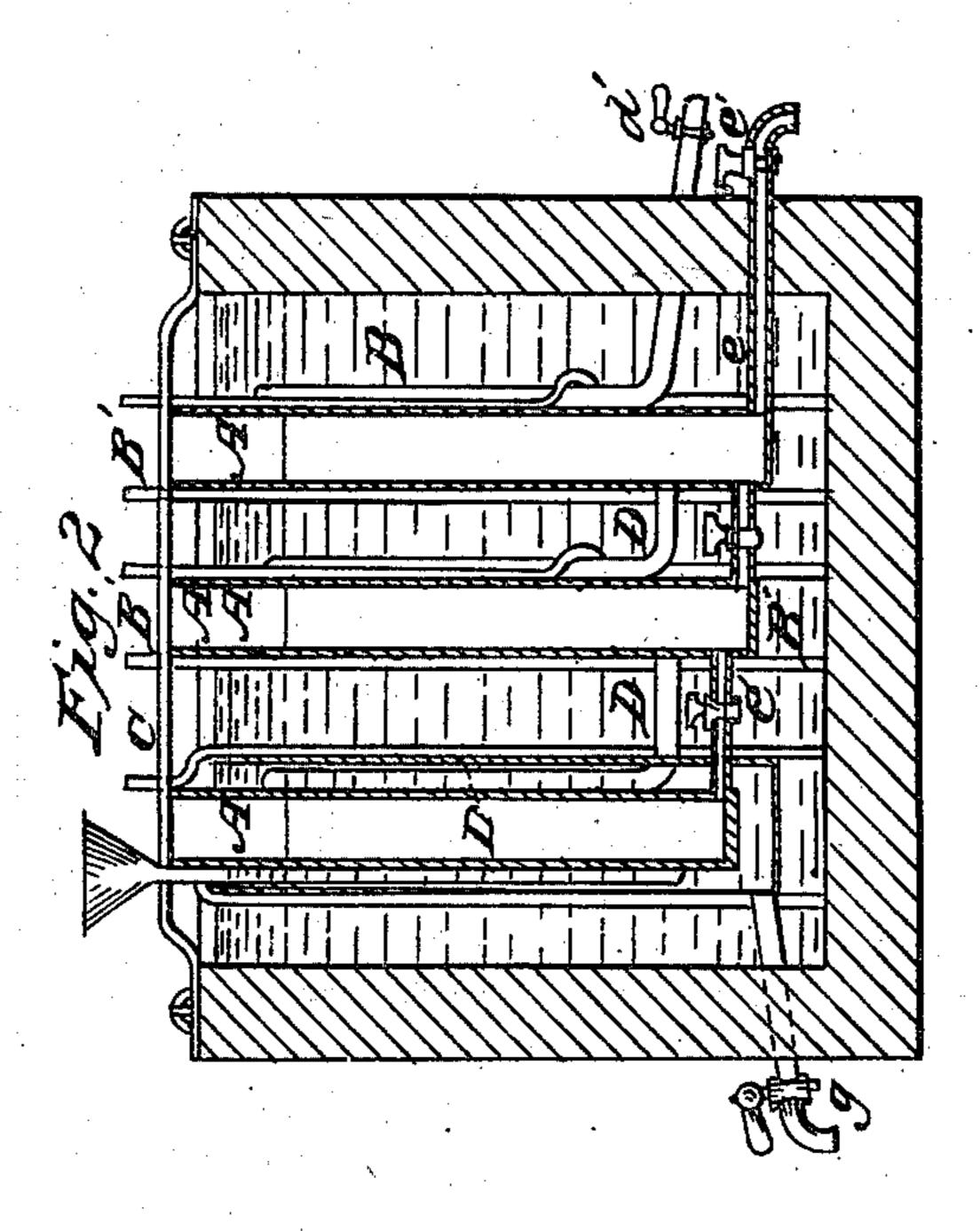
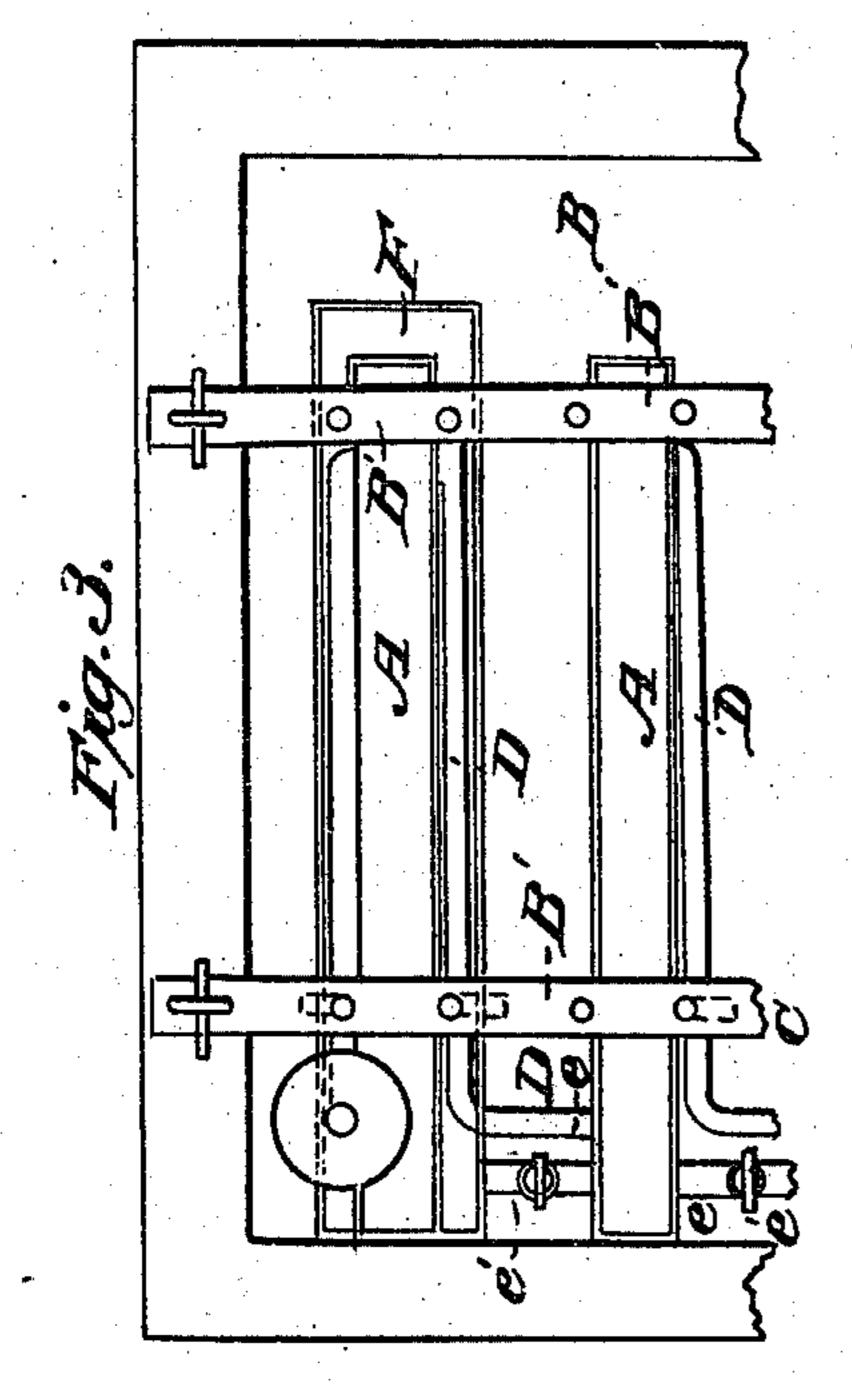
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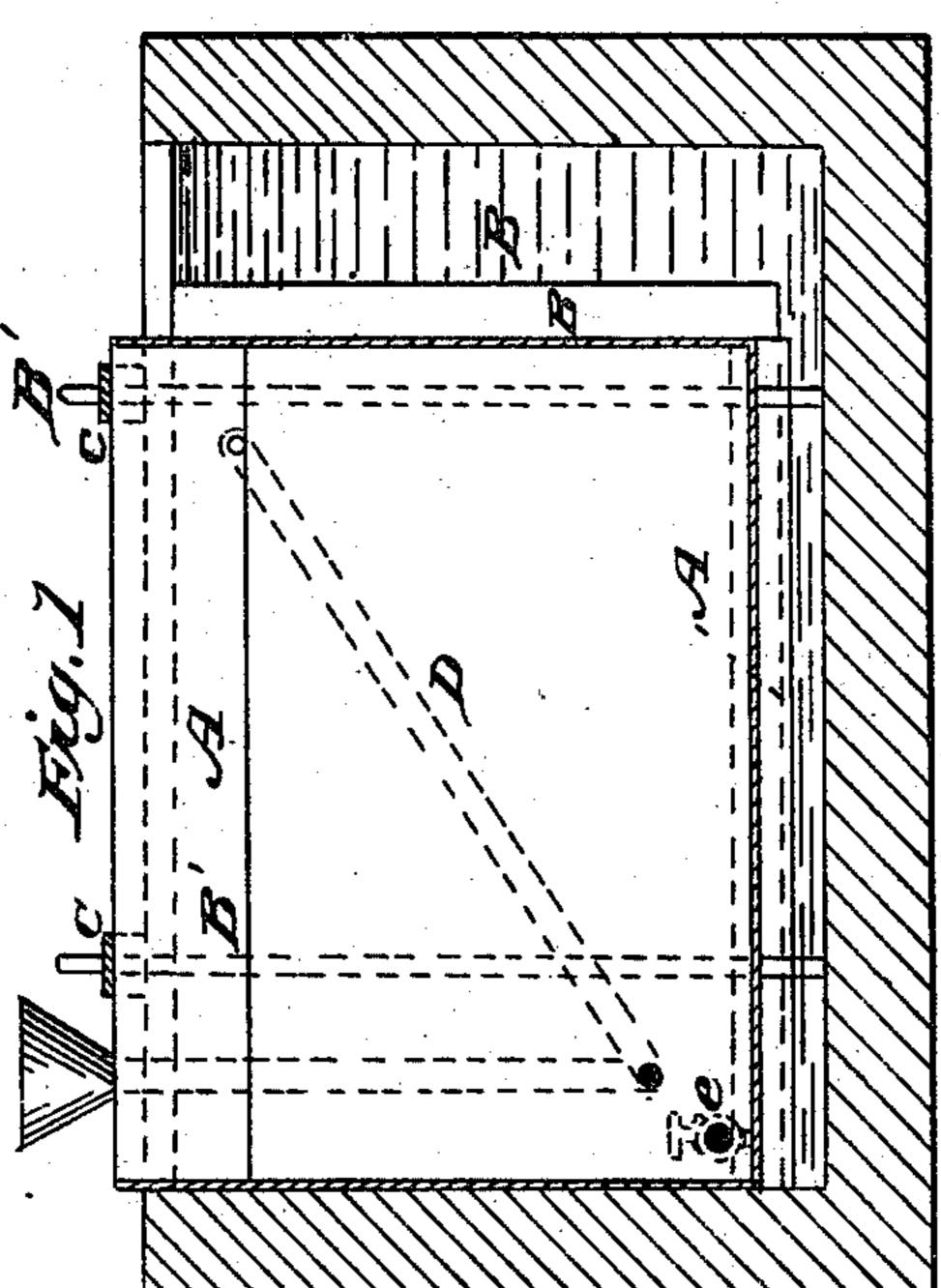
Beer Cooler.

No. 83,431.

Patented Oct. 27, 1868.







Thed. W. Scott 1B. H. Smith

INVENTOR: George Winter



## GEORGE WINTER, OF BUFFALO, NEW YORK.

Letters Patent No. 83,431, dated October 27, 1868.

## 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, George Winter, of the city of Buffalo, in the 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 longitudinal sectional elevation.

Figure II is a transverse vertical section.

Figure III is a top plan view.

The nature of this invention consists,

First, in the combination of a series of beer-tanks, open at the top, with a water-reservoir, the former being arranged within the latter, and connected together, by means of pipes, in such manner, that, as soon as one tank is filled with beer, the surplus will be discharged into the next tank, and so on, until all the tanks are full.

Second, in supporting the tanks within the water-reservoir by means of upright posts or rods, secured to the bottom of the reservoir, and connected together at the top by cross-bars or ties, or equivalents.

Third, in an annular chamber, formed around one or more of the tanks, or a portion thereof, into which only the warm water from the surface, near the top of the reservoir, is allowed to enter, and from which it may be drawn off as often as required.

Letters of like name and kind refer to like parts in

each of the figures.

A A represent a series of upright tanks, which are made about four feet in height, by four inches in width, and of any desired length, though other dimensions may be adopted if expedient. These tanks are supported and arranged within a water-reservoir, B, between upright posts, B', the projecting ends of which are firmly held by, and secured to, two or more transverse cross-bars or clamps, C.

This mode of construction renders the whole struc-

ture compact and portable.

The tanks A are designed to contain the beer to be cooled, and are connected together, by means of the pipes D, in such manner that as the first one of the tanks is filled with beer up to a certain height, the surplus will be discharged through a pipe, and carried to the next tank, entering near the bottom thereof. The second tank being filled, the surplus will then be discharged into the third, and so on, until all the tanks are full.

It does not become necessary to draw off the beer from the cooling-tanks in a steady current, unless the temperature of the water surrounding the tanks is low enough for cooling the beer in the desired degree

while passing through the tanks, but if the water is not cold enough for that purpose, the beer may be allowed to remain in the tanks until thoroughly cooled. It is then drawn off by means of the stop-cock d'.

The bottoms of the several tanks are placed at different heights, and connected by pipes, e, having stopcocks, e. These stop-cocks are kept closed, except when it is necessary to discharge the whole contents of one tank into the others, or when all the beer is to be withdrawn from the cooler.

F represents a reservoir, formed around the first tank, A, that is to say, that tank into which the beer is first received, but the other tanks may also be provided with these reservoirs, if deemed expedient.

The object of this reservoir is to catch the warmest water contained in the reservoir B, from the surface, and subject it to another heating by contact with the tank containing the warmest beer, before it is discharged or drawn off through the pipe and stop-cock, g.

This feature of my invention is of great importance, inasmuch as in most beer-coolers a vast deal of cold water is allowed to escape before it has had an opportunity to assist in cooling the beer.

My improvement utilizes every drop of cold water contained in the reservoir B, by passing the warm surface-water through the reservoir F, in contact with the hottest of the tanks, A, before it is discharged.

In addition to this last-mentioned feature, my improved beer-cooler has the desirable quality of being simple in its construction, the whole being plain, square work, without angles, sharp corners, and joints.

The beer-tanks may be easily removed, and cleaned with a brush, and by hand, a very difficult matter in coolers containing or composed of a great number of pipes or other inaccessible devices.

When the process of cooling a certain quantity of beer is completed, the beer contained in the tanks is easily removed, to the last drop.

What I claim as my invention, and desire to secure

by Letters Patent, is—

1. The tanks A, in combination with the reservoir B and conducting-pipes D, all parts being constructed, arranged, and operating substantially as herein described.

2. Supporting the tanks A, within the reservoir B, by means of the upright posts or rods B' and crossbars or tie-rods C, substantially as set forth.

3. The reservoir F, in combination with the tanks A, for the purposes and substantially as herein described.

GEORGE WINTER.

Witnesses:

FRED. W. SCOTT, B. H. MUEHLE.