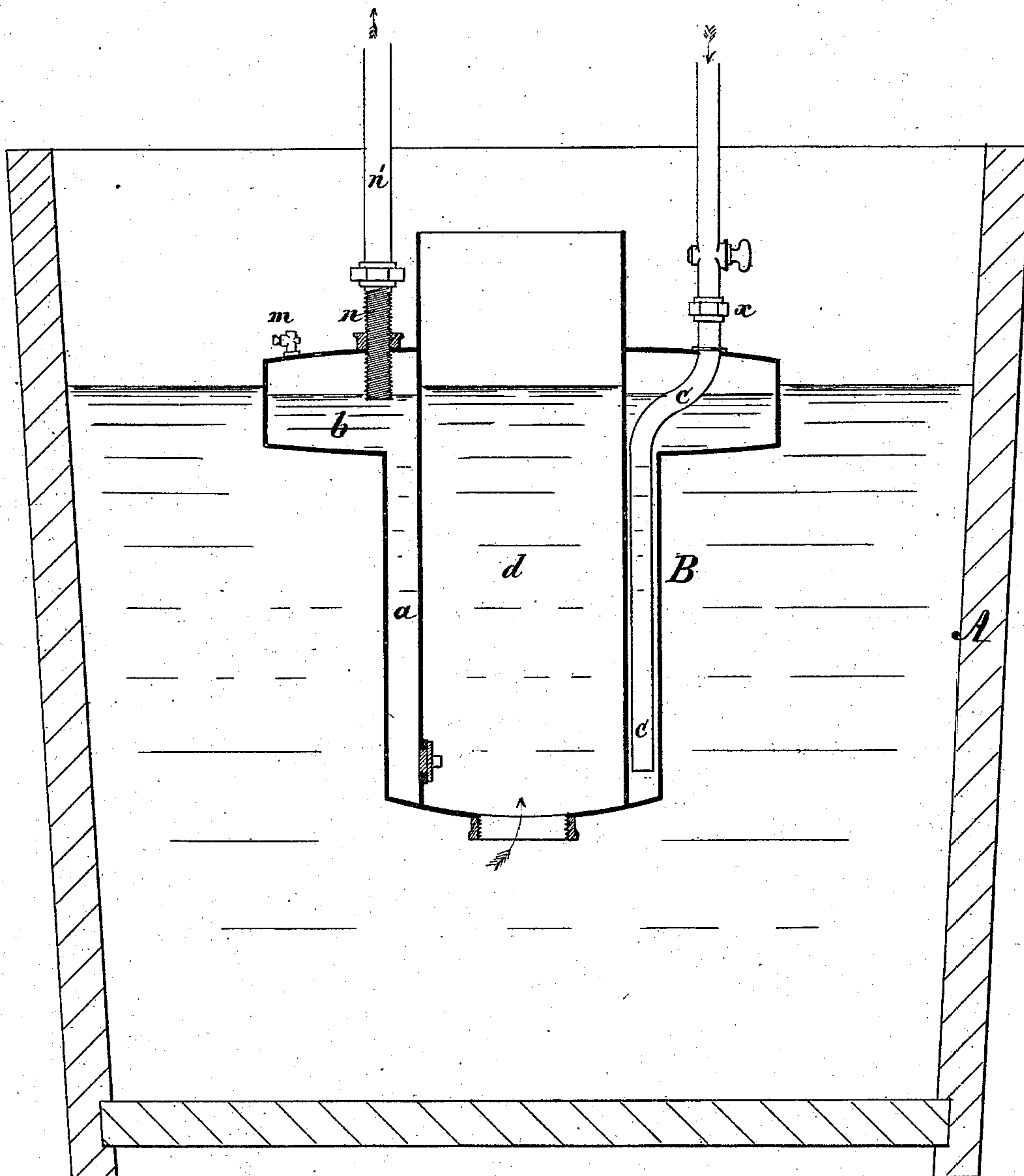


(No Model.)

J. SCHAFHAUS.  
Floating Cooler.

No. 238,809.

Patented March 15, 1881.



Witnesses.

Edward P. Luter  
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# UNITED STATES PATENT OFFICE.

JEAN SCHAFHAUS, OF NEW YORK, N. Y.

## FLOATING COOLER.

SPECIFICATION forming part of Letters Patent No. 238,809, dated March 15, 1881.

Application filed January 20, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, JEAN SCHAFHAUS, a citizen of the United States, residing in New York, in the State of New York, have invented  
5 a new and useful Improvement in Floating Coolers, of which the following is a specification.

The nature of my invention consists in a cooler to be inserted or placed in a beer-vat  
10 for cooling the beer during the process of undergoing fermentation, capable of being easily moved about and raised or lowered in the fluid in the vat as may be required.

The accompanying drawing represents a  
15 section of my improved cooler placed in a vat, where A represents the vat, and B the cooler. This cooler consists of a lower cylindrical chamber, *a*, and an upper chamber, *b*, considerably enlarged, capable of acting as a float  
20 to support the cooler in the liquid. Through the center a large open space, *d*, is made to allow the liquid to pass and come in contact with the cooling-fluid placed in the cooler on the interior and exterior surfaces of said cooler.

25 C is a pipe to supply the cooling-liquid to the cooler. This pipe is carried nearly to the bottom of the cooler. In the top of the enlarged part or of the floating part *b* a pipe, *n*, is screwed, capable of being made higher or lower,  
30 as may be desired, and for the purpose herein-after mentioned. To this the pipe *n'* is attached

to carry off the surplus and heated fluid from the cooler. By this arrangement of screwing the pipe *n* farther inward or of bringing the end nearer to the top of the chamber *b*, the air  
35 in the upper part of said chamber can be increased or diminished, increasing or diminishing thereby the buoyancy of the float, and causing the same to sink more or less in the fluid in the vat.

40 *m* is a small cock in the top of the cooler to allow the air to escape, if desired.

To the coupling *x* of the pipe *c* a siphon may be attached for drawing the fluid from the cooler whenever it is desired to lift the same  
45 out of the vat.

This floating cooler can easily be moved about in the vat, raised or lowered as may be desired, and removed from the fluid the exact moment the required degree of fermentation  
50 of the liquid is obtained.

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

A cooler consisting of a concentric lower chamber, *a*, and an enlarged upper chamber, 55 *b*, in combination with a pipe, *n*, capable of being regulated substantially in the manner and for the purpose herein described.

JEAN SCHAFHAUS.

Witnesses:

HENRY E. ROEDER,  
J. B. NONES.