

(No Model.)

A. ZOLLER.

COOLER FOR BEER AND OTHER LIQUIDS.

No. 260,630.

Patented July 4, 1882.

Fig. 1.

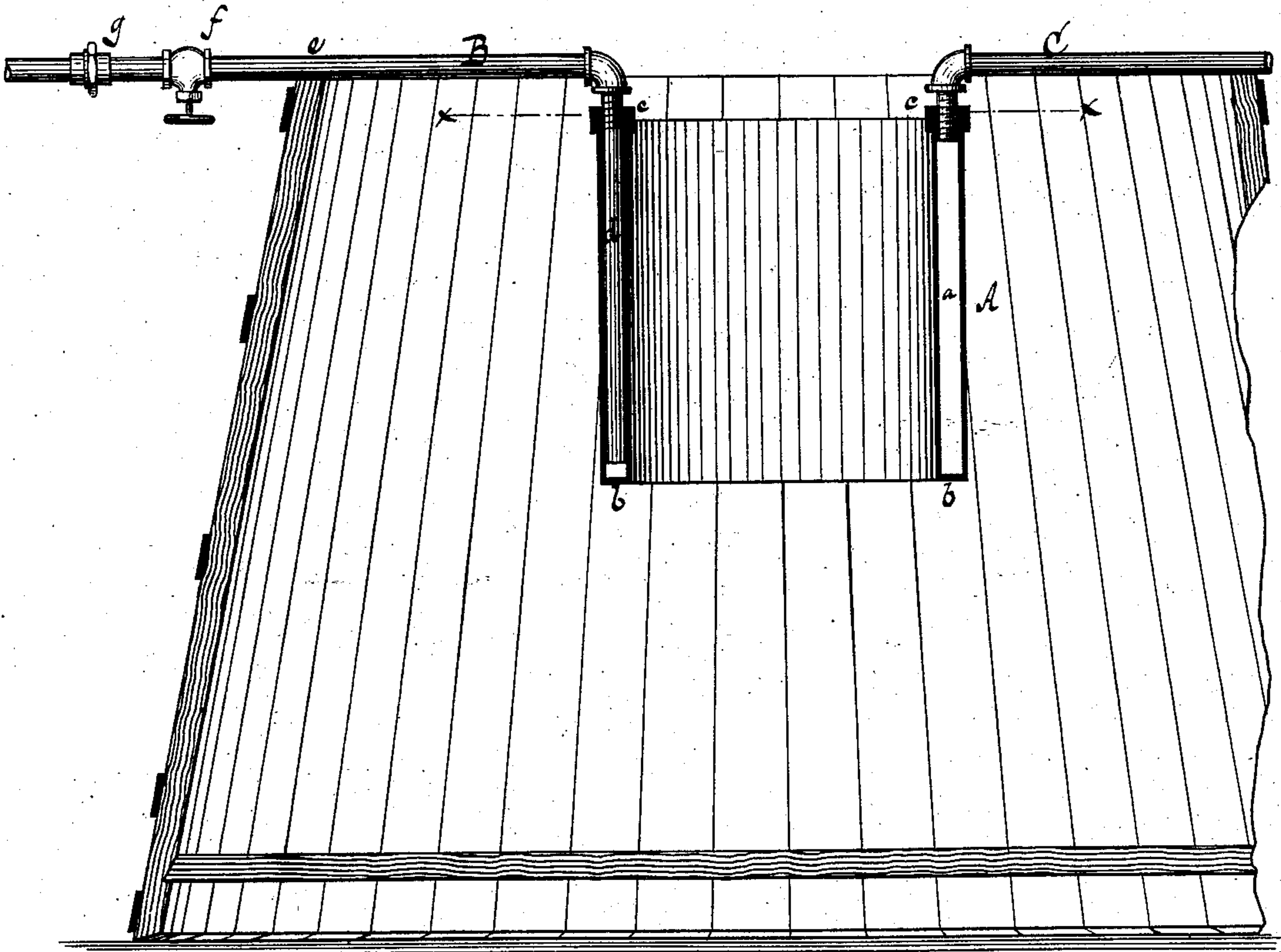
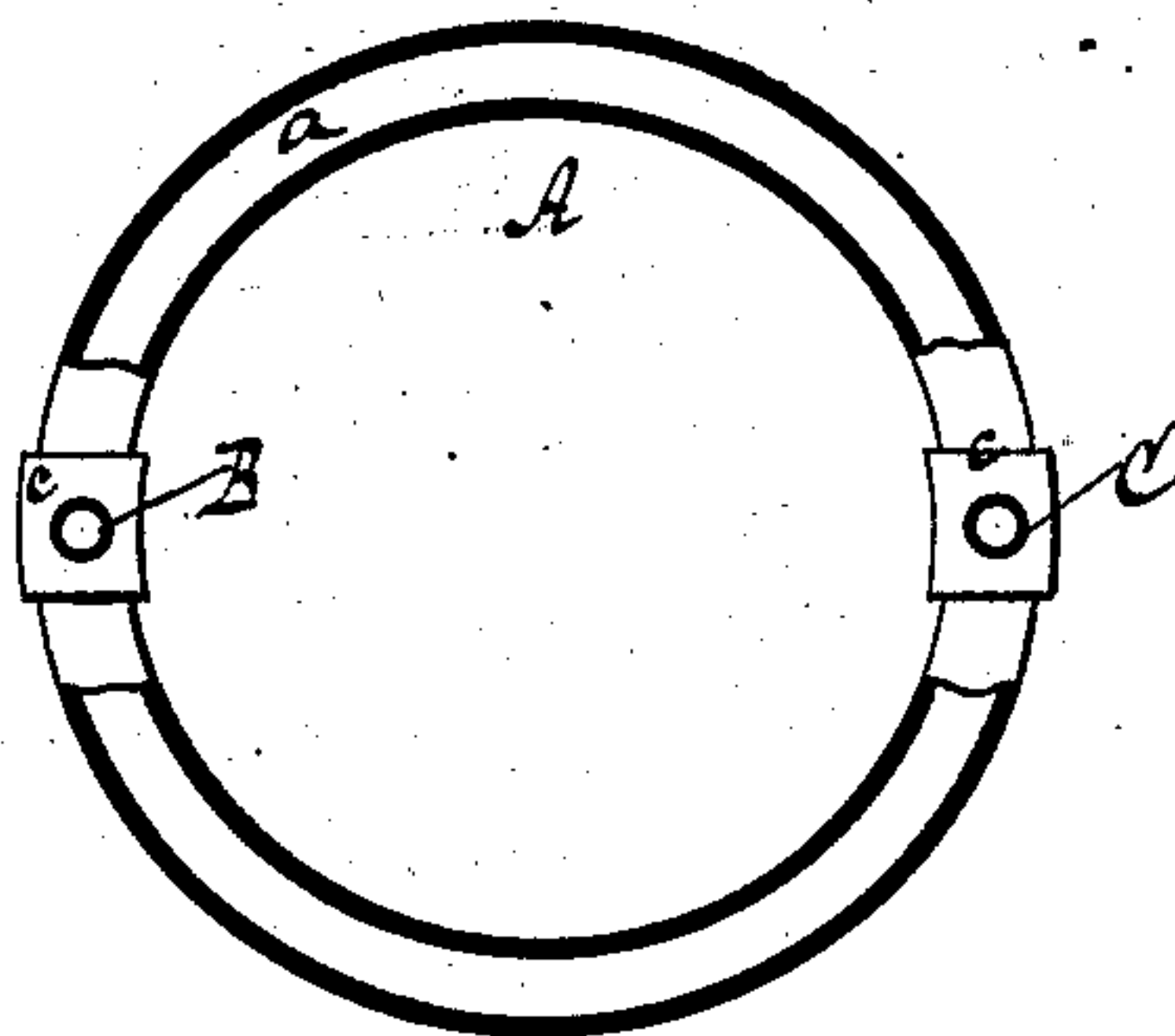


Fig. 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

ALBERT ZOLLER, OF NEW YORK, N. Y.

## COOLER FOR BEER AND OTHER LIQUIDS.

SPECIFICATION forming part of Letters Patent No. 260,630, dated July 4, 1882.

Application filed May 8, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT ZOLLER, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Coolers for Beer and other Liquids, of which the following is a specification.

The object of my invention is to provide a novel construction and combination of parts, whereby the annular cooling-cylinder may be suspended centrally within the fermenting-tun or other vessel through the medium of the supply and overflow pipes of the cooling-cylinder, resting directly upon the upper or top edge of the tun, all in such manner that the cooling-cylinder can be conveniently adjusted to or removed from the tun, and the necessity of perforating the latter for the passage of the supply and overflow pipes is avoided.

To this end my invention consists in the combination of an annular cylinder, two annular heads which close the annular space of said cylinder, one at the bottom and the other at the top, a supply-pipe which is fastened in the upper head, and one branch of which extends down through the annular space nearly to its bottom, while its other branch extends at right angles from the first branch, and an overflow-pipe which is fastened in and passes through the upper head and extends parallel to or in line with the second or horizontal branch of the supply-pipe, so that when the annular cylinder is placed into a fermenting-tun it is supported by the supply-pipe and overflow-pipe bearing upon the edge of said tun, and the temperature of the liquid in the tun can be easily regulated.

In the accompanying drawings, Figure 1 represents a vertical central section, showing the cooler in a fermenting-tun. Fig. 2 is a horizontal section in the plane  $xx$ , Fig. 1.

Similar letters indicate corresponding parts.

In the drawings, the letter A designates an annular cylinder, the annular space  $a$  of which is closed at the bottom by the annular head  $b$  and at the top by the annular head  $c$ . In the upper head is firmly secured a pipe, B, one branch of which extends down through the annular space  $a$  nearly to the lower head. The other horizontal branch  $e$  of the pipe B extends at right angles to the branch  $d$ , and is provided with a stop-cock,  $f$ , and with a union-joint,  $g$ , the latter serving to make a connection with a tank or reservoir containing the cooling medium.

In the upper head,  $c$ , is also secured a second pipe, C, in a position diametrically opposite to the supply-pipe B. The vertical branch of this pipe C extends only a very short distance beneath the head  $c$ , and its horizontal branch is situated in the same plane (or nearly so) as the horizontal branch of the supply-pipe.

When my cooler is placed into a fermenting-tun or other vessel containing the liquid to be cooled it is sustained by the horizontal branches of the supply-pipe B and of the discharge-pipe C, and when the stop-cock of the supply-pipe is opened the cooling medium fills the annular space of the cylinder A and passes off through the overflow-pipe C. By this arrangement of the pipes B and C, therefore, I am enabled to adjust my cooler in a fermenting-tun or other vessel in the easiest and most simple manner, and the operation of cooling the liquid contained in the tun or vessel can be effected with little trouble.

It is obvious that various cooling media can be used in my cooler, according to the cooling effect desired.

I do not wish to be understood as broadly claiming an annular attemperating-chamber provided with annular heads to one of which is connected a supply-pipe, and also an overflow-pipe having a branch extending into the annular space of the cooling-vessel.

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

The combination, with the cooling-cylinder provided with the annular space closed at the top and bottom by annular heads, of the supply-pipe B, composed of a horizontal branch and a vertical branch extending through the upper head of the cylinder into the annular space thereof, and the horizontal overflow-pipe C, also connected with the upper head of the cylinder, said horizontal portions of the supply and overflow pipes being arranged opposite each other in the same horizontal plane and adapted to rest directly on the top edge of the tun, and thereby suspend the cooling-cylinder centrally within the same, substantially as described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

ALBERT ZOLLER. [L. S.]

Witnesses:

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E. F. KASTENHUBER.