E. L. WALLACE.

MILK COOLER.

APPLICATION FILED MAR. 10, 1911.

994,433. Patented June 6, 1911.

2 SHEETS—SHEET 1.

Fig. 1.

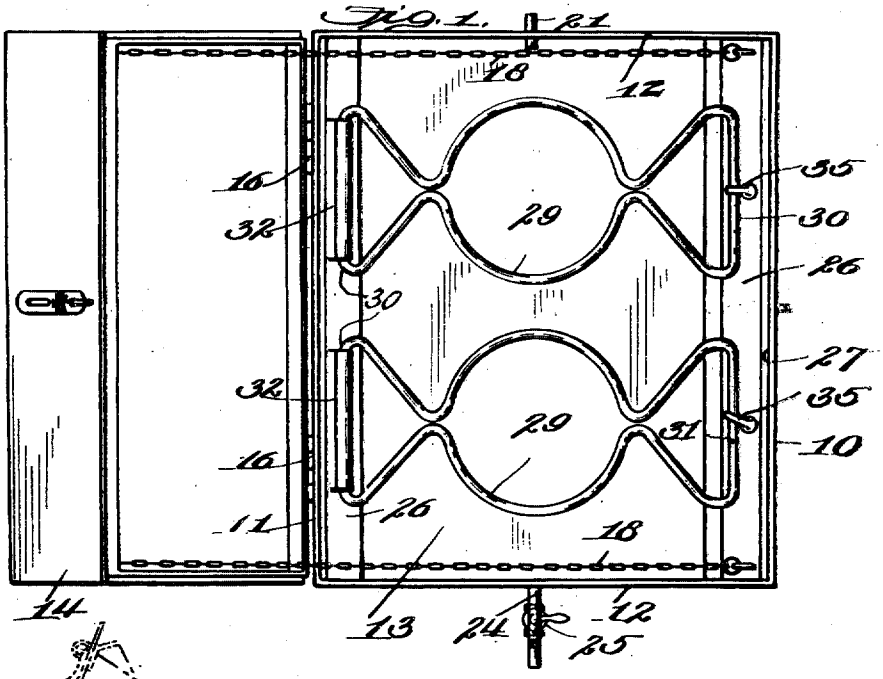

Fig. 2.

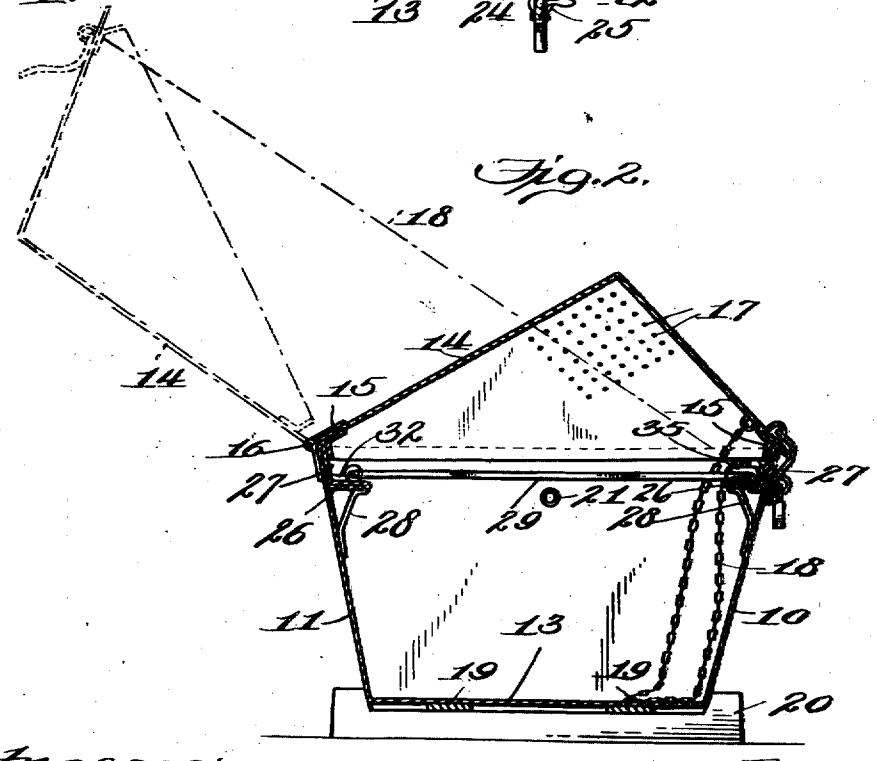

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Fig. 3.

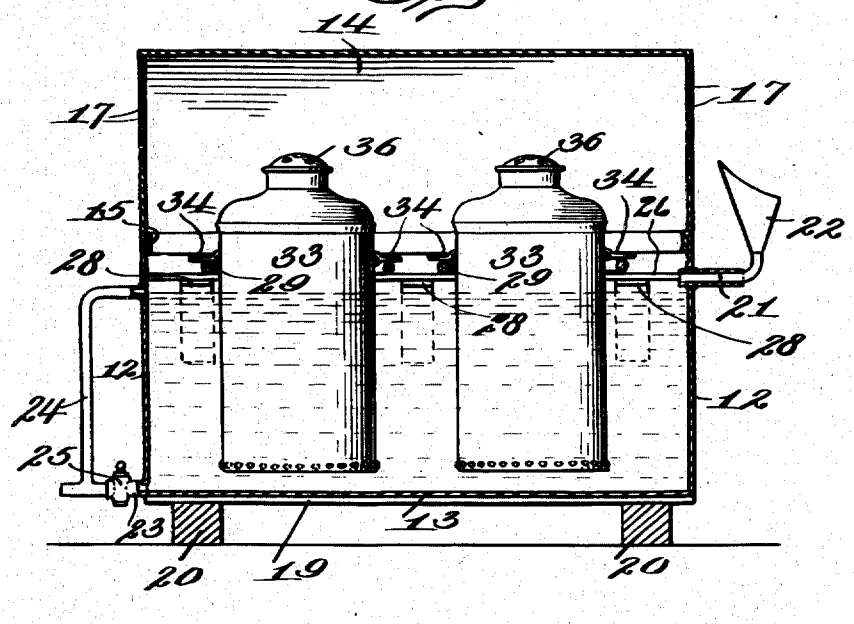
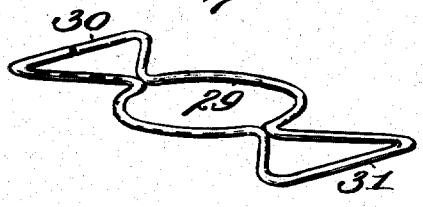


Fig. 4.



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UNITED STATES PATENT OFFICE.

EMMA L. WALLACE, OF HALSEY, OREGON.

MILK-COOLER.

994,433. Specification of Letters Patent. Patented June 6, 1911.

Application filed March 10, 1911. Serial No. 613,507.

To all whom it may concern:

Be it known that I, EMMA L. WALLACE, a citizen of the United States, residing at Halsey, in the county of Linn and State of Oregon, have invented certain new and useful Improvements in Milk-Coolers, of which the following is a specification.

This invention relates to that class of milk or cream coolers comprising a vessel holding water in which the receptacles containing the milk or cream are set; and it is the object of the present invention to provide a cooling apparatus of this kind which can be easily cleaned and thus kept in thorough sanitary condition, and also to provide improved means for supporting the receptacles in the vessel.

A further object of the invention is to provide a cooler embodying certain novel features of construction to be hereinafter described and claimed.

In the accompanying drawings forming a part of this specification—Figure 1 is a plan view of the cooler with the cover thereof thrown open. Fig. 2 is a transverse section with the cover closed. Fig. 3 is a longitudinal section showing the milk or cream holding receptacles within the cooler. Fig. 4 is a perspective view of one of the holding devices hereinafter referred to.

Referring specifically to the drawings, the vessel which contains the cooling medium comprises a front wall 10, rear and end walls 11 and 12, respectively, a bottom 13, and a hinged cover 14. The cover is double-inclined and seats on the top edges of the front, rear and end walls, and said cover also has a depending bottom flange 15 fitting snugly against the inner surface of said walls so as to make a tight inclosure. The hinges of the cover are indicated at 16. In the end walls of the cover are ventilating holes 17 to permit the escape of any heat rising from the cooling milk or cream, and also to allow fresh air to circulate through the apparatus. To the free ends of the cover are connected chains 18 which are fastened to the front wall of the vessel, and support the cover in open position. A hasp-and-staple lock for the cover is also provided.

On the bottom of the vessel are transverse strengthening strips 19, and wooden supports 20 are provided on which the vessel is removably supported.

At 21 is indicated the inlet pipe of the cooling agent, said pipe being connected to one of the end walls of the vessel near the top thereof. This pipe may be connected to a suitable source of water supply. If running water is not available, the vessel may be filled through a funnel 22 attached to the inlet pipe. An outlet pipe 23 is connected to the opposite end wall near the bottom of the vessel, and an overflow pipe 24 is also connected to said wall slightly below the level of the inlet pipe. The overflow pipe is connected to the outlet pipe and the latter is also provided with a valve 25 which is located between the vessel and the point at which the overflow pipe joins the outlet pipe.

On the front and rear walls of the vessel, inside the latter, are shelves 26 for the can-supporting frames to be presently described. These shelves are formed by folding over the material of which the front and rear walls of the vessel are constructed, the fold being downwardly along the inner surface of said walls for a short distance, as indicated at 27, and said downward fold terminates in an outward horizontal bend a sufficient distance to form the shelf, said outward bend terminating in a return bend beneath the shelf, thus doubling the same, the end of the material being soldered to the shelf. This construction makes the top edges of the front and rear walls perfectly smooth and at the same time forms strong and rigid shelves. Braces 28 for the shelves are also provided.

The can-supporting members comprise a frame composed of an iron rod which is bent to form an intermediate circular portion 29 from diametrically opposite points of which the opposite sides of the frame extend divergingly, they being connected at their ends by transverse portions 30 and 31, respectively. The transverse portion 30 is connected to the shelf 26 of the rear wall by two strap hinges 32, and the other transverse portion, which is the free end of the frame, rests on the shelf of the front wall. The can or other receptacle 33 containing the milk or cream seats in the intermediate circular portion 29 of the frame, the handles 34 of the can engaging the top thereof, and holding the can in place within the frame. On the shelf of the front wall are mounted latches comprising screw hooks 35 which are adjustable to engage over the trans-

verse portion 31 of the frames and thus hold the same down when removing the cans therefrom.

The cans 33 have perforated covers 36 in order to permit the escape of the heat which rises from fresh milk or cream, and at the same time to prevent the cream from drying which occurs when standing entirely uncovered.

The entire apparatus herein described, except the milk or cream cans, will be constructed of galvanized metal, and as all parts are readily accessible, the apparatus can be thoroughly cleaned and kept in sanitary condition. The interior of the vessel is accessible upon swinging the can-supporting frames upwardly on their hinges. The cans will be made of extra heavy tin.

I claim:

1. An apparatus of the character described comprising a vessel having an inlet and an outlet for a tempering agent, shelves on opposite sides of the vessel on the inside and below the top thereof, and receptacle-supporting frames each comprising an intermediate circular portion, and end portions, one of said end portions being hinged to one of the aforesaid shelves, and the other end portion being supported on the other shelf.

2. An apparatus of the character described comprising a vessel having an inlet and an outlet for a tempering agent, shelves on opposite sides of the vessel on the inside and below the top thereof, said shelves being formed by bending the material forming said opposite sides of the vessel inwardly and downwardly, said bends terminating in horizontal bends at the extremities of which return bends are made, said horizontal and return bends forming the shelves, and receptacle-supporting frames mounted on the shelves.

In testimony whereof I affix my signature in presence of two witnesses.

EMMA L. WALLACE.

Witnesses:
R. W. DAVIS,
F. W. BLUMBERG.