

H. N. ROYS.
MILK COOLING, VENTILATING, AND PROTECTING DEVICE.
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1,051,269.

Patented Jan. 21, 1913.

Fig. 1.

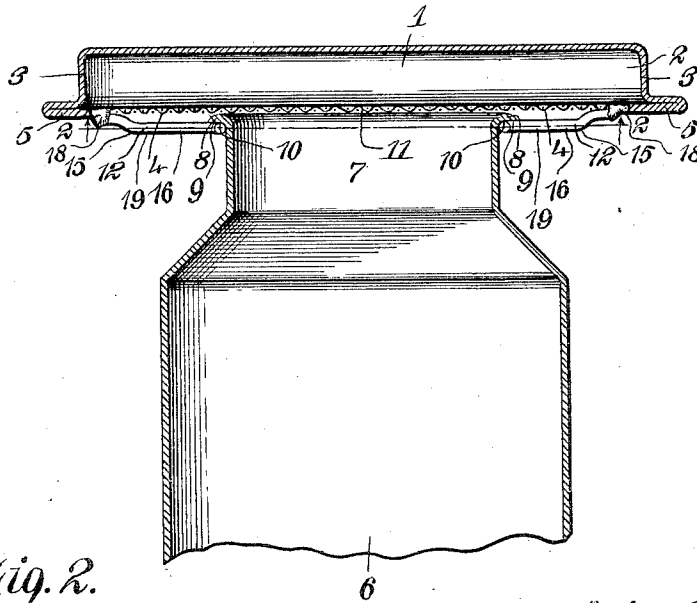
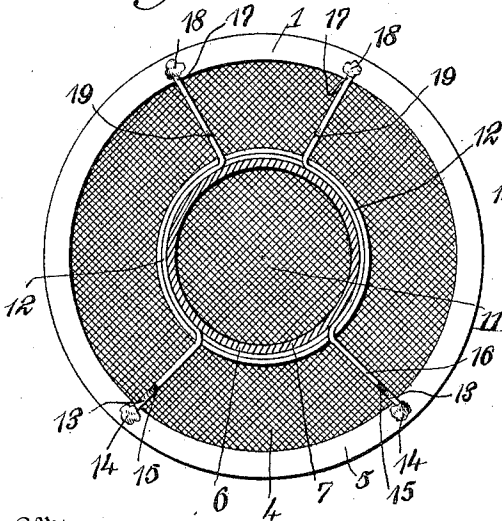


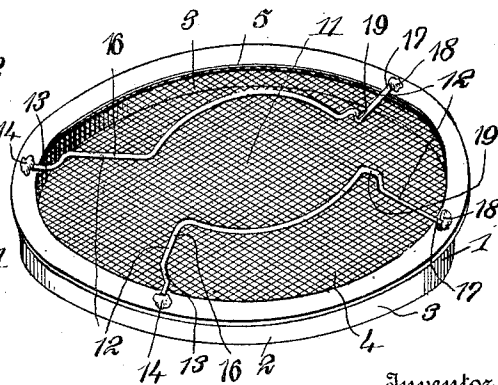
Fig. 2.



Witnesses

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Fig. 3.



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HERVEY N. ROYS, OF ROLLIN, MICHIGAN.

MILK COOLING, VENTILATING, AND PROTECTING DEVICE.

1,051,269.

Specification of Letters Patent.

Patented Jan. 21, 1913.

Application filed August 28, 1912. Serial No. 717,579.

To all whom it may concern:

Be it known that I, HERVEY N. ROYS, a citizen of the United States, residing at Rollin, in the county of Lenawee and State of Michigan, have invented new and useful Improvements in Milk Cooling, Ventilating, and Protecting Devices, of which the following is a specification.

This invention relates to milk cooling, aerating and protecting devices for milk cans, and has for an object to provide a device of this character which may be readily applied to a can of any well known construction; one that will effectually fit over the neck or open end of the can to protect the contents from insects, animals, foreign matter or outside elements, and one which will open the interior of the can to the outside air so as to provide for a perfect circulation of air within the can and permit the animal heat to quickly pass from the milk.

In the drawing forming a portion of this application, and in which like letters of reference indicate similar parts in the several views:—Figure 1 is a vertical section through a can showing the application of the ventilating cover therefor. Fig. 2 is a horizontal section on line 2—2 of Fig. 1 looking in the direction of the arrow. Fig. 3 is an inverted perspective view of the ventilating cover.

The combined protecting cover, aerator and cooler comprises a cap member 1 which is preferably in form of an inverted circular tray, being provided with a crown 2 and vertical side walls 3. A foraminous member 4 is disposed in parallel relation with the crown 2 through the medium of the depending walls 3. This member has its marginal edge lying in mutual contact with the lower edges of the walls 3 and securely confined in the annular crimped portion 5 of the latter as shown.

The milk can 6 herein conveniently shown is of the usual well known construction and configuration, being provided with a vertical neck 7 whose walls are flared outwardly at 8 and then downwardly at 9 to present an annular groove 10 entirely around the neck for a purpose to be hereinafter explained. The cap member 1 has a diameter which greatly exceeds the diameter of the neck 1 so that outer portions of the foraminous material 4 extend laterally beyond the neck when the cap member is operatively centered upon the neck. In this manner the interior of the

can 6 is opened to the outside air to effectually set up a perfect air circulation within the can with a resultant cooling of its contents as is evident. The central portion 11 of the foraminous material lies in flat contact with the neck and is extended entirely over the upper end thereof to form a screen to protect the contents of the can from insects. With a view to properly centering the cap member 1 upon the neck and for holding the latter against accidental displacement therefrom, I provide arcuate companion neck gripping devices 12 which are identically constructed and preferably formed of springy wire. The terminals 13 of the members 12 are soldered or otherwise suitably secured at 14 to the crimped portion 5 of the cap member and from said soldered portion the terminals are offset downwardly as at 15 and then extended by the guiding portions 16 directly into the arcuate intermediate portions of said grippignig devices. The terminals 13 of the companion gripping devices are flared relatively and spaced sufficiently to permit the upper end of the neck of the can to be readily extended above the portion 16 and then guided in between the arcuate gripping portions for effective clamping engagement therewith. The opposite terminals 17 of the gripping devices are arranged in relatively close relation and preferably soldered or otherwise suitably secured to the portion 5 of the cap member and as shown said terminals are provided with vertical off-set portions 19 which form stops that engage against the peripheral edge of the neck 7 to limit the sliding adjustment of the cap member and to cause the member to be properly centered upon the neck of the can.

I claim:—

1. An aerating cover for milk cans comprising a substantially inverted tray-shaped cap member having a foraminous base adapted to extend across the neck of the can and to also extend laterally therebeyond, and yieldable means carried by said member and adapted to receive the neck of the can whereby the member is held secured thereon.
2. An aerating cover for milk cans comprising a substantially inverted tray-shaped cap member having a foraminous base adapted to extend across the neck of the can and to also extend laterally therebeyond, and yieldable means carried by said member

and adapted to receive the neck of the can whereby the member is held secured thereon, and means forming part of said yieldable means to engage against the neck to center the latter with relation to said member.

3. An aerating device for milk cans comprising a crown having depending side walls, a foraminous ventilating member secured to said side walls, elastic means disposed beneath the foraminous member and having relatively adjustable gripping portions for receiving the neck of the can, guiding portions extending from said gripping portions, the said crown being slidably adjustable over the neck, and means for limiting the sliding adjustment of the crown so as

to center said foraminous portion with relation to the neck of the can.

4. An aerating device comprising a foraminous member adapted for horizontal sliding adjustment upon the open end of a vessel, and gripping portions disposed on the underside of said foraminous member and provided with guiding terminals and stops respectively for the purpose specified.

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

HERVEY N. ROYS.

Witnesses:

ALFRED K. DEAN,
EUGENE C. ROGERS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."