

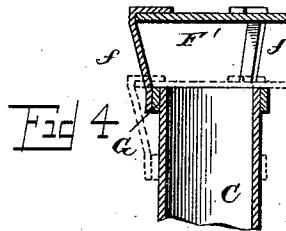
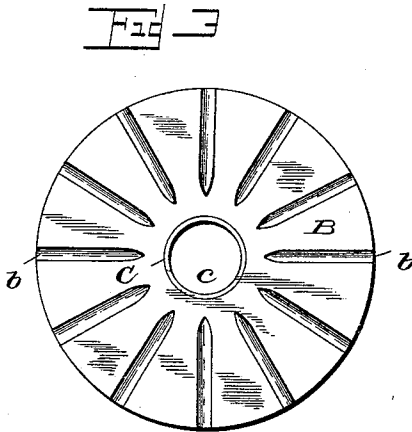
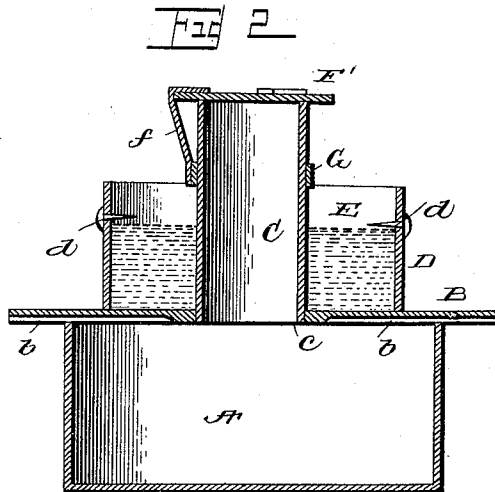
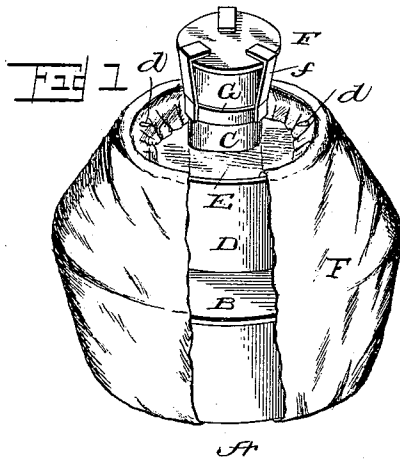
(No Model.)

J. W. SMART & T. C. CHEATHAM.

DEVICE FOR COOLING MILK, MEAT, VEGETABLES, &c.

No. 478,720.

Patented July 12, 1892.



Witnesses

*John D. Smith*  
*John J. L. L.*

Inventors

*J. W. Smart & T. C. Cheatham*  
By their Attorneys,

*W. H. H. H.*

# UNITED STATES PATENT OFFICE.

JOHN W. SMART AND THOMAS C. CHEATHAM, OF BURNET, TEXAS.

## DEVICE FOR COOLING MILK, MEAT, VEGETABLES, &c.

SPECIFICATION forming part of Letters Patent No. 478,720, dated July 12, 1892.

Application filed April 27, 1892. Serial No. 430,839. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN W. SMART and THOMAS C. CHEATHAM, citizens of the United States, residing at Burnet, in the county of Burnet and State of Texas, have invented new and useful Improvements in Devices for Cooling Milk, Meats, Vegetables, and the Like, of which the following is a specification.

This invention relates to devices for cooling milk, meats, vegetables, and the like; and it has for its object to provide an article of this class designed to be used upon jars, pails, &c., of varying diameters.

A further object of the invention is to provide a device of this character of such construction as will produce a continuous current of air through the vessel upon which it is placed and which will also possess advantages in point of inexpensiveness and durability in construction and general efficiency.

In the drawings, Figure 1 is a perspective view illustrating the application of our invention, the cloth covering being broken away. Fig. 2 is a central vertical sectional view. Fig. 3 is a bottom or inverted plane view. Fig. 4 is a detail sectional view illustrating the adjustment of the cap.

Corresponding parts in the figures are denoted by the same letters of reference.

Referring to the drawings, A designates a vessel, upon which is applied our improved cooling device. The latter comprises a circular plate or base B, disposed over and covering the mouth of said vessel. The plate B is constructed of sheet metal or other suitable material and is corrugated or provided upon its under surface with grooves to form air-inlets *b*. The plate is also provided with a central circular opening *c*, surrounding which and projecting upwardly from the plate is a tubular flue C, designed for carrying off the heated air and gases from the contents of the vessel. The flue is permanently secured to the plate and serves the additional purpose of a handle for placing and removing the device.

Projecting upwardly from the plate B and inclosing the flue C is an annular flange D. The latter is rigidly secured to the plate and is of much greater diameter than said flue, thus forming a chamber E, surrounding the latter, for the reception of ice or cold water.

Pins *d* are provided at the upper edge of the flange D and project inwardly therefrom.

In practice the vessel is designed to be entirely enveloped in a cloth covering F, the edges of said covering projecting over the plate B and flange D and secured upon the pins *d*. The extreme edge of the covering contacts with the water within the chamber E and serves to convey the same by capillary attraction down through the cloth, thus rendering the latter a non-conductor for the external heated air.

F' designates a cap to fit over the flue C and exclude the entrance of foreign substances into the vessel. The cap is provided with depending arms *f*, secured at their lower ends to a ring G. The latter encircles the flue C and fits closely thereon, and thereby permits the vertical adjustment of the cap. Thus by this means the current of air passing through the vessel is readily regulated, or when desired the flue-opening may be entirely closed.

The operation and advantages of our invention will be readily understood by those skilled in the art to which it appertains.

A device constructed as above described not only provides for the exit of the heated air and gases arising from the contents of the vessel, but also for a continuous current of cold air through the latter.

The invention is also readily adapted for use upon vessels of varying diameter, is easily cleansed, and, being of simple construction, it can be manufactured and supplied at slight cost.

We claim as our invention—

1. A cooling device comprising a plate or base provided upon its under side with air-inlet grooves and upon its upper surface with a receptacle for the reception of a cooling medium and an outlet-flue projecting upwardly from said plate or base, substantially as and for the purpose set forth.

2. In a cooling device of the class described, the combination, with a plate or base provided with air-inlet openings and with a receptacle for the reception of a cooling medium, of an outlet-flue and a cap therefor and adjustable thereon, substantially as and for the purpose set forth.

3. A cooling device of the class described,

comprising a plate or base provided with grooves or corrugations upon its underside for the passage of air, an annular flange projecting upwardly from said plate or base and  
5 forming a receptacle, an outlet-flue projecting upwardly from the center of said receptacle and opening through the plate or base, and a cap for said flue consisting of the cap proper, arms depending therefrom, and a ring  
10 connecting the lower ends of said arms and encircling the flue, substantially as and for the purpose set forth.

4. The combination, with a vessel, of a cooling device consisting of a plate or base form-

ing the cover for said vessel and provided 15 with air-inlet openings, a receptacle upon the top of the plate or base and provided with inwardly-projecting pins, an outlet-flue, and a cloth adapted to inclose the vessel and receptacle and be secured at its edges to said pins, 20 substantially as and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN W. SMART.

THOMAS C. CHEATHAM.

Witnesses:

J. H. HILL,

ELISHA BOYD.