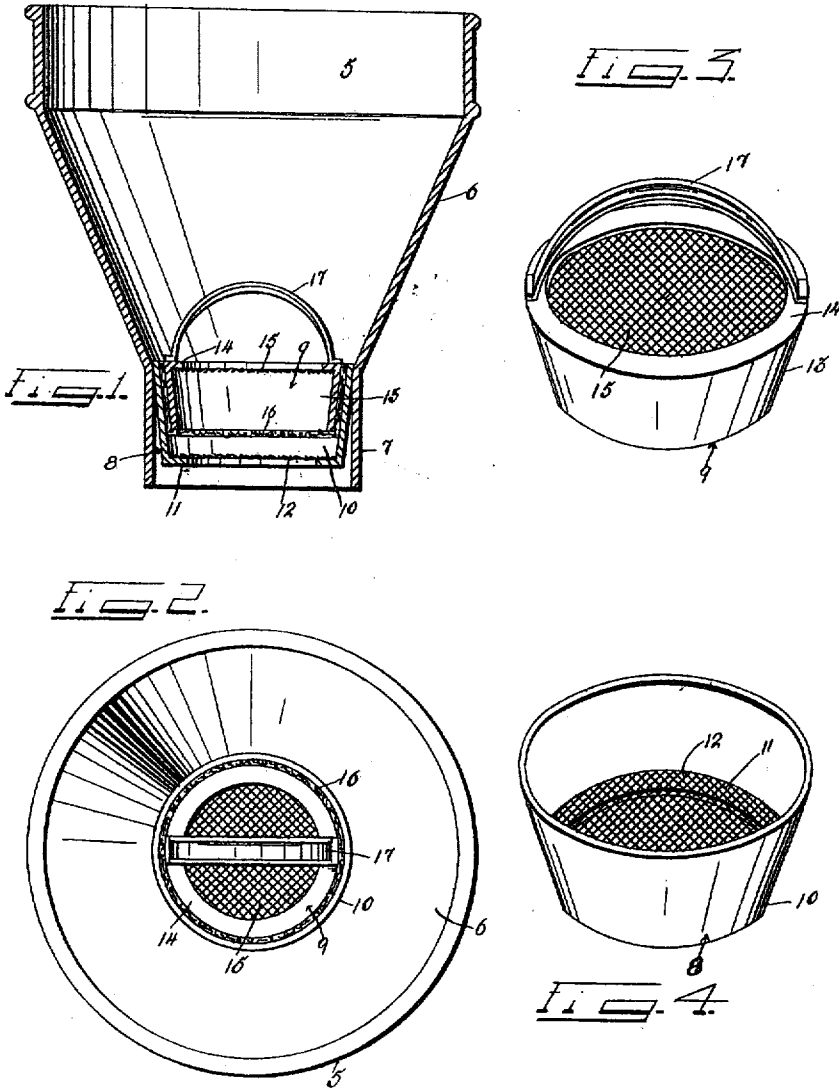


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MILK STRAINER.  
APPLICATION FILED MAR. 20, 1911.

1,023,664.

Patented Apr. 16, 1912.



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# UNITED STATES PATENT OFFICE.

ASBURY F. LAITY, OF MADISON, SOUTH DAKOTA.

MILK-STRAINER.

1,023,664.

Specification of Letters Patent.

Patented Apr. 16, 1912.

Application filed March 20, 1911. Serial No. 615,645.

*To all whom it may concern:*

Be it known that I, ASBURY F. LAITY, a citizen of the United States, residing at Madison, in the county of Lake, State of South Dakota, have invented certain new and useful Improvements in Milk-Strainers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an improvement in strainers generally, although the same is especially adapted for use in connection with milk.

Another object of the invention is to provide a cleaner for the purpose described by means of which milk can be poured into a can and the said can sealed from air and the odors of the cow barn.

Another object of the invention is to provide a strainer having antiseptic material associated therewith, and through which the milk will pass.

A still further object of the invention is to provide a strainer in the nature of an attachment to a funnel whereby the same can be readily attached or detached, and when in the latter relation can be easily cleansed.

A still further object of the invention is to provide a strainer of the character described which is extremely simple in construction and cheap to manufacture.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings: Figure 1 is a vertical sectional view through the funnel and strainer, Fig. 2 is a top plan view of the funnel showing the strainer associated therewith, Fig. 3 is a perspective view of the inner member of the strainer, and Fig. 4 is a perspective view of the outer member of the strainer.

Like reference numerals designate cor-

responding parts in all the figures of the drawing.

Referring to the drawing, the invention comprises a funnel 5 having an inverted frusto-conical body portion 6 and a tubular neck 7. Arranged within said neck is a strainer which consists of outer and inner members 8 and 9 respectively. The outer member 8 is preferably formed of seamless sheet metal and comprises a flared wall 10 having an inwardly extending flange 11 integral with the lower or smaller end thereof. A wire gauze 12 is secured to the flange 11 by solder or any other suitable means. The inner member 9 is likewise formed of seamless sheet metal and includes a wall 13 which is formed to correspond to and fit within the wall 10 of the outer member. Extending inwardly from the upper or larger end of the wall 13 is an integral flange 14 to which is secured a wire gauze 15 by solder or other suitable means. A strip of anti-septic absorbent material 16, such as, for instance, cotton, is disposed over the lower edge of the inner member, and has its marginal edges disposed between and clamped by the walls of the members 8 and 9.

In practice, after the outer member has been positioned within the neck 7 of the funnel, the strip of cotton 16, is placed over the lower or smaller end of the inner member and said member together with the cotton strip is inserted within the outer member, the strip being clamped by the walls of the member as above described.

Secured to the flange 14 of the inner member is an upwardly extending bail 17, by means of which the said inner member can be readily attached to, or detached from the outer member, whenever it is desirous of exchanging the strip of cotton 16.

From the foregoing, it will be observed that when the milk passes down through the funnel it will first pass through the gauze 15 of the inner member, thence through the anti-septic material 16, and finally through the second gauze 12. As a result, the two gauzes will tend to separate any foreign matter from the milk, and the anti-septic cotton will eliminate any impurities in the milk which were not separated therefrom by the said gauze 15.

What is claimed is:—

1. In combination with a funnel having a neck, of a strainer disposed within said neck

consisting of inner and outer members, the outer member having a flared wall engaging the neck of the funnel, a wire gauze secured to the lower end of the wall, the inner member having a wall formed to correspond to the wall of the outer member, a wire gauze secured to the upper end of said inner member, and a strip of anti-septic material disposed over the lower edges of the inner member and having its marginal edges disposed between and clamped by the walls of said members.

2. In combination with a funnel having a neck, of a strainer disposed within said neck consisting of inner and outer members, the outer member having a flared wall engaging the neck of the funnel, a flange projecting inwardly from the lower edge of said wall, a wire gauze secured to said flange, the inner member having a wall formed to correspond to the wall of the outer member, a flange projecting inwardly from the upper edge of said inner member, a wire gauze secured to the last mentioned flange, and a strip of anti-septic material disposed over the lower edges of the inner member and

having its marginal edges disposed between and clamped by the walls of said members.

3. In combination with a funnel having a neck, of a strainer disposed within said neck consisting of inner and outer members, the outer member having a flared wall engaging the neck of the funnel, a wire gauze secured to the lower end of the wall, the inner member having a wall formed to correspond to and fit within the wall of the outer member, a flange projecting inwardly from the upper edge of said inner member, a wire gauze secured to the last mentioned flange, an upwardly projecting bail also secured to said flange, and a strip of anti-septic material disposed over the lower edge of the inner member and having its marginal edges disposed between and clamped by the walls of said members.

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

ASBURY F. LAITY.

Witnesses:

F. R. VAN SLYKE,  
A. E. FULLER.

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