

No. 646,434.

Patented Apr. 3, 1900.

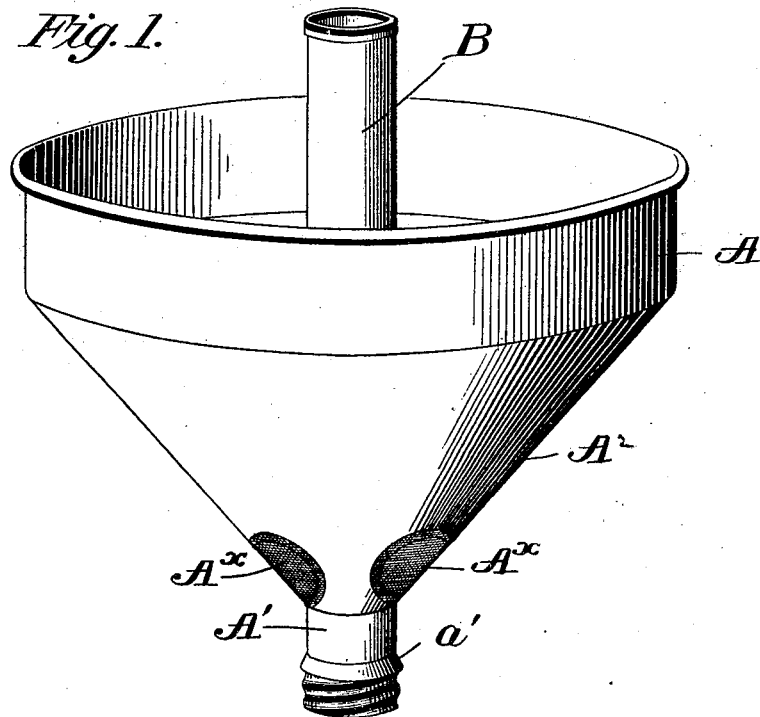
E. S. LAGERQUIST.

MILK STRAINER.

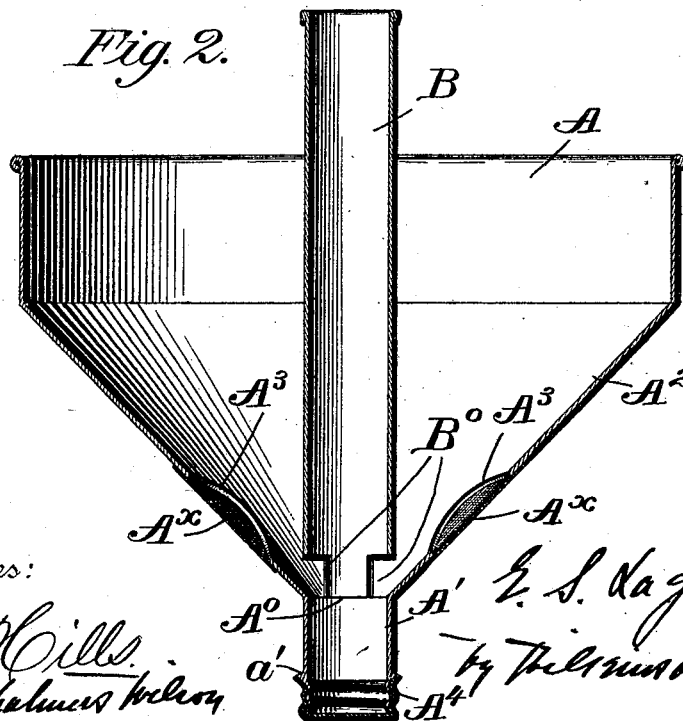
(Application filed Dec. 6, 1899.)

(No Model.)

*Fig. 1.*



*Fig. 2.*



Witnesses:

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# UNITED STATES PATENT OFFICE.

ERIK S. LAGERQUIST, OF OXFORD DEPOT, NEW YORK.

## MILK-STRAINER.

SPECIFICATION forming part of Letters Patent No. 646,434, dated April 3, 1900.

Application filed December 6, 1899. Serial No. 739,416. (No model.)

*To all whom it may concern:*

Be it known that I, ERIK S. LAGERQUIST, a citizen of the United States, residing at Oxford Depot, in the county of Orange and State of New York, 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.

My invention relates to improvements in strainers, particularly for use in dairies for straining milk; and it consists in the novel strainer hereinafter described and claimed.

My invention will be understood by reference to the accompanying drawings, wherein the same parts are indicated by the same letters throughout both views.

Figure 1 is a perspective view of the strainer, and Fig. 2 is a central vertical sectional view of the same.

The device consists of a body A, preferably cylindrical in form and having a funnel-shaped or conical bottom A<sup>2</sup>, provided with an opening A<sup>0</sup> in its bottom or apex. About this opening and concentric therewith is a cylindrical extension A', which is provided with the screw-threaded end adapted to receive a screw-threaded cap A<sup>4</sup> for closing the same. The exterior surface of said cylindrical extension A' is preferably provided with an annular flange or shoulder a', against which the edge of the screw-cap A<sup>4</sup> may bear when screwed full upon the said extension, thus forming a close joint.

The sloping or conical bottom A<sup>2</sup> of the strainer is provided with a series of openings A<sup>3</sup>, over which are secured pieces of wire mesh A<sup>x</sup>. These openings are arranged at approximately the same distance from the opening A<sup>0</sup> in the center of the bottom of the strainer and radially about the said opening. A central tube B, preferably cylindrical in form and of a diameter approximately that of the opening A<sup>0</sup> in the bottom of the strainer, is fixed in a position corresponding to the axis of the strainer, with its bottom end concentric with the opening A<sup>0</sup>. The said tube B is provided, circumferentially, with openings B<sup>0</sup> at intervals, the said openings being in com-

munication with the central opening A<sup>0</sup> in the bottom of the strainer and arranged to allow the passage of liquid into the cylindrical extension A', which is in the nature of a well, for the purpose of receiving and retaining any sediment that may be arrested by the pieces of wire mesh A<sup>x</sup>. The cylindrical tube B extends at least to but preferably above the level of the upper edge of the strainer-body A, as shown in the drawings.

The object of the cylindrical extension or well A' is, as has been said, to receive and retain any sediment that may be arrested by the pieces of wire mesh A<sup>x</sup> and to prevent from clogging the strainer; but without some arrangement for avoiding it there would be an objectionable suction and disturbance of any sediment in the said well A' whenever liquid is poured into the vessel A. By the use of the central tube B this objectionable disturbance is as far as practicable avoided, inasmuch as the disturbance created in the well A' when liquid is poured into the vessel A is confined to the said tube B, the liquid rising in the said tube and afterward settling into the well A'. The openings B<sup>0</sup> about the bottom of the tube B allow the sediment to pass into the well A' with a small body of the liquid which is retained therein. The openings B<sup>0</sup> are arranged opposite the strainer-openings A<sup>3</sup> to facilitate the passage of the sediment into the well A', as hereinbefore described.

Although I have described and shown the device as being of a circular form, I do not wish to limit myself to this particular shape, which may be varied at will without altering the essential features of construction.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. In a liquid-strainer, the combination with a body having a sloping bottom provided with a central opening and an extension beneath said opening provided with a removable closure, said bottom having perforations therein; and straining material covering said openings; of a hollow tube fixed over the opening in said bottom and provided with openings about its lower end communicating with the opening in the bottom of the vessel, the

said hollow tube extending to or above the level of the rim of the vessel; substantially as described.

2. In a liquid-strainer, the combination  
5 with a vessel for receiving liquids, provided with a sloping bottom, having a central opening and strainer-openings arranged about said central opening; strainer material covering said strainer-openings; a well or extension permanently connected to the central  
10 opening; of a hollow tube extending above the rim of the vessel and having openings about its bottom end for the passage of liquid from the body of the vessel into the said well  
15 or extension; substantially as described.

3. In a device for straining liquids, the combination with the vessel A, having a funnel-shaped bottom A<sup>2</sup> provided with central bot-

tom opening A<sup>0</sup> and cylindrical extension A', provided with a removable closure, and having strainer-openings A<sup>3</sup> arranged about the  
20 said central opening A<sup>0</sup>; and strainer material covering the said strainer-openings; of the central tube B extending above the rim of the vessel A and having at its bottom end, 25 openings B<sup>0</sup> arranged to correspond with the pieces of the strainer-openings A<sup>3</sup> and communicating with the central opening A<sup>0</sup>, substantially as described.

In testimony whereof I affix my signature 30 in presence of two witnesses.

ERIK S. LAGERQUIST.

Witnesses:

HARRY L. WELLS,  
DAVID W. WOOLSEY.