

(No Model.)

H. W. DIERS.
MILK STRAINER.

No. 514,646.

Patented Feb. 13, 1894.

Fig. 1.

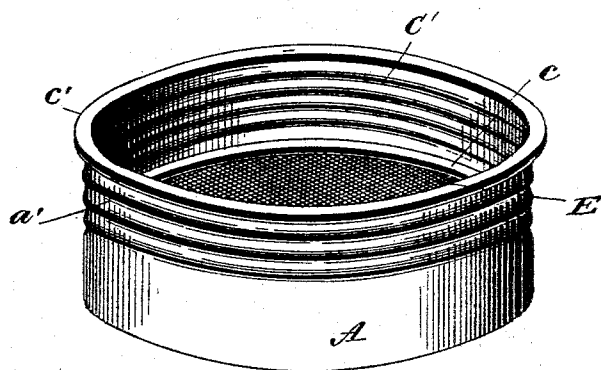


Fig. 2.

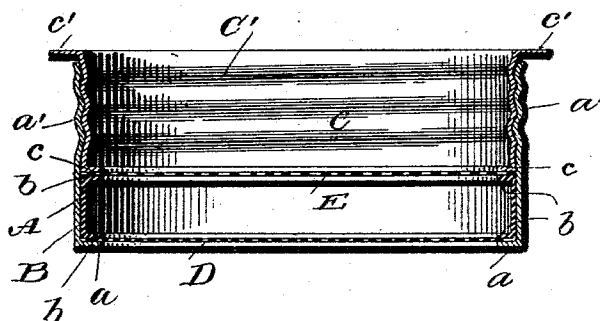
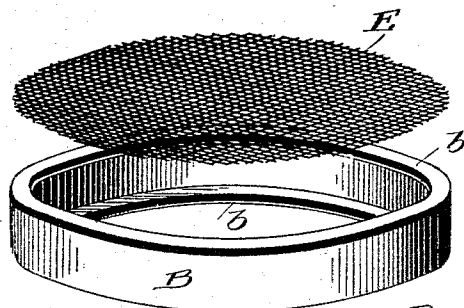


Fig. 3.



Witnesses:

L. C. Mills.
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UNITED STATES PATENT OFFICE.

HENRY W. DIERS, OF CLEAR LAKE, IOWA.

MILK-STRAINER.

SPECIFICATION forming part of Letters Patent No. 514,646, dated February 13, 1894.

Application filed October 31, 1893. Serial No. 489,633. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. DIERS, a citizen of the United States, residing at Clear Lake, in the county of Cerro Gordo, State of Iowa, have invented certain new and useful Improvements in Milk-Strainers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in screens or strainers of that class designed for straining milk and the like and comprising two or more screens separably held within a cylindrical portion, and it has for its objects among others to provide a simple and cheap screen of this character in which the screens will be held at a distance apart whereby the same will not clog up and cause slow straining, and in such a way as to be readily separated for cleaning or other purposes. It embodies a cylindrical portion with an inwardly-extending flange at one end and a screw thread at the other, a removable ring or portion with an inwardly-extending flange at each end, screens of different mesh, and a removable portion with an inwardly-extending flange at one end and an outwardly-extending flange at the other end and this last-mentioned portion is screw threaded to engage the threaded portion of the cylinder to hold the ring and screens in place.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be specifically defined by the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view of my improved screen. Fig. 2 is a central vertical section through the same. Fig. 3 is a perspective view of the flanged ring and the screens separated from each other and from the other portions of the device.

Like letters of reference indicate like parts throughout the several views.

Referring now to the details of the drawings by letter, A designates the body portion of the device which is preferably cylindrical

in form of sheet metal and formed at one end with an inwardly-extending flange *a* and the other end provided with screw threads or spiral corrugations as seen at *a'*.

B is a ring having at each end an inwardly-extending flange *b* and this ring may be of greater or less height as may be desired.

C is a ring portion having at one end an inwardly-extending flange *c* and at the other end an outwardly-extending flange *c'* as seen best in Fig. 2, and between these flanges this ring is provided with screw threads or spiral corrugations *C'* as seen in Figs. 1 and 2 to engage the threads or corrugations of the body portion A.

D is a screen of fine mesh, and E is a screen of coarser mesh.

In assembling the parts the fine screen D is placed within the body portion A and is supported upon the flange *a* thereof, then the ring B is placed in position with its lower flange resting on the screen around its edge and holding the same between said flange and the flange of the body portion; then the screen E is placed in position upon the upper flange of the ring and the portion C is screwed into place within the body portion and the screen E is securely held between the flange of the said portion C and the upper flange of the ring B, all as clearly shown in Fig. 2.

The device may be made of any required size and used in any desired manner, when used with a milk can the flange *c'* will serve to support the device over the mouth of the can. The parts may be readily separated for cleaning or for any other purpose. If desired, the screens, one or both, may be soldered on the flanges.

What I claim as new is—

1. A strainer comprising a body portion provided at one end with an inwardly-extending flange, a ring with an inwardly-extending flange at each end, screens held upon opposite sides of said ring, and a tubular portion for holding the ring within the body portion, substantially as specified.

2. A strainer comprising a body portion provided with an inwardly-extending flange at one end and screw threads at the other, a ring with inwardly-extending flanges, screens, held

upon opposite sides of the ring and a tubular flanged portion fitted within the body portion and threaded to engage the threads of the body portion, substantially as specified.

- 5 3. The strainer described consisting of the cylindrical body portion with an inwardly-extending flange at one end and screw threads at the other, the ring with an inwardly-extending flange at each end, the screens of different mesh one above the upper flange of
10 said ring and the other below the lower flange, and the removable tubular portion having

an inwardly-extending flange at one end and outwardly-extending flange at the other end and screw threads between said flanges to engage the threads of the body portion, all substantially as specified. 15

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

HENRY W. DIERS.

Witnesses:

D. W. HURN,

CHAS. A. COOLEY.