(No Model.)

E. STEINHORST.

FUNNEL AND STRAINER.

No. 279,989. Patented June 26, 1883.

Fig. 1.

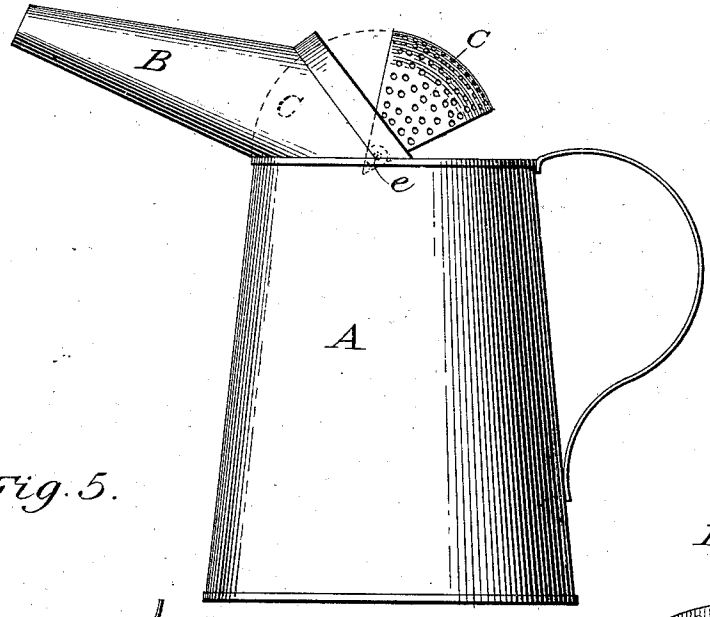


Fig. 5.

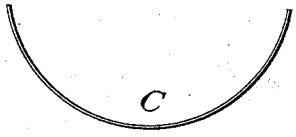


Fig. 4.

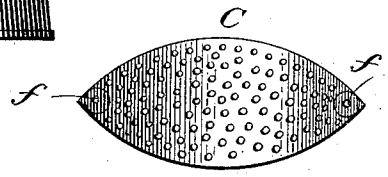


Fig. 2.

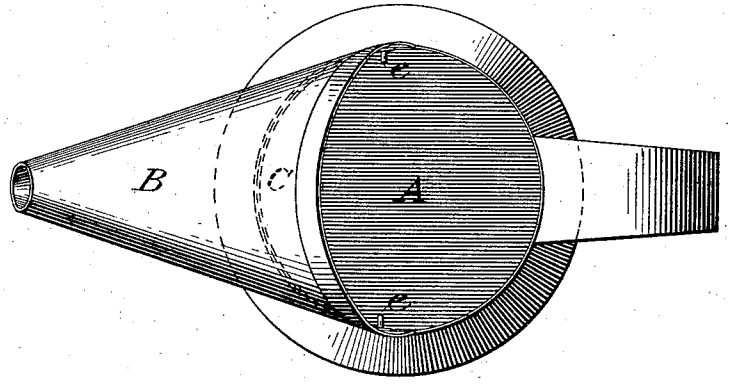
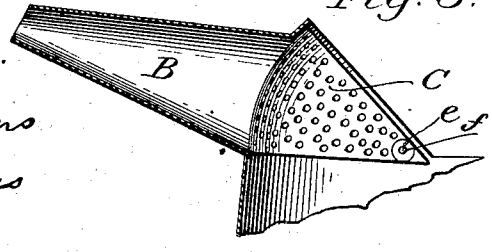


Fig. 3.



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UNITED STATES PATENT OFFICE.

EMIL STEINHORST, OF UTICA, NEW YORK.

FUNNEL AND STRAINER.

SPECIFICATION forming part of Letters Patent No. 279,989, dated June 26, 1883.

Application filed March 8, 1883. (No model.)

To all whom it may concern:

Be it known that I, EMIL STEINHORST, a citizen of the United States, residing at Utica, in the county of Oneida and State of New York, have invented and discovered a new and useful Funnel and Strainer, of which the following is a specification.

My invention and discovery relates to improvement in the method of constructing a funnel-shaped nose or spout to a cup or measure, used for measuring or handling fluids, and a strainer in connection and combination therewith. I attain this object by means demonstrated in the accompanying drawings, in which—

Figure 1 represents a side view of the cup or measure and the funnel-shaped nose or spout with the movable strainer. Fig. 2 represents a top view of the same. Fig. 3 represents a section of the nose or spout with the strainer adjusted in position for use. Fig. 4 represents a front view of the strainer detached from the measure. Fig. 5 represents a side view of the strainer detached from the measure.

Similar letters refer to similar parts throughout the several views.

The nature and construction of my invention consist of ordinary sheet-metal measures for handling fluids, constructed of tin or other sheet metal, with a funnel-shaped nose or spout attached to the top of the cup or measure by means of solder, with a strainer constructed of wire-cloth or perforated sheet metal, of oblong shape, and of sufficient size to cover the inner opening to the funnel-shaped nose or spout, so as to cover the whole opening, with holes in the ends to fit on the projecting ends of the rivets, as hereinafter described. The strainer is attached to the measure by means of rivets passing through the sides of the measure, with heads on the outside, projecting on the inside sufficiently to allow the strainer, with a hole of sufficient size in each end, to be attached to the projecting ends of the rivets, and so adjusted that the strainer can be moved backward in a circle, so as to leave the funnel entirely open to suit the wishes of the person using the same, and capable of being entirely removed from the measure and held in place by the spring in the metal strainer. The funnel-shaped nose on the measure entirely dispenses with the necessity of a funnel in handling liquids, and at the same time furnishes a strainer which can be used or omitted in connection with a measure constructed on my plan, as the person may wish. The strainer can be removed or placed on the measure by compressing the metal strainer sufficiently to allow the openings in the ends to fit on the projecting ends of the rivets on the sides of the measure, as before mentioned. The rivets may be made serviceable in fastening, in connection with solder, the band of sheet metal which passes round and over the upper part of the funnel-shaped spout and is attached to the side of the measure, to strengthen the spout and prevent the sides of the measure from spreading or cracking.

Having described the nature and construction of my invention and improvement, I will now describe its construction and operation by reference to the drawings.

A represents an ordinary sheet-metal measure for handling or measuring fluids.

B represents the funnel-shaped nose or spout attached to the top of the measure.

C represents a perforated sheet-metal strainer, of oblong shape, bent so as to fit the inside of the funnel or spout on the same curve or bend of the measure to which it is attached.

e e represent the rivets in the sides of the measure, forming an inner projection, to which strainer C can be attached or detached at will. *f f* represent the holes or openings in the ends of the strainer, which fit on the inner projecting ends of rivets *e e*. By means of rivets *e e* and holes or perforations *f f*, a flexible joint is formed, so that strainer C can be moved forward and backward in a semicircle, thus leaving the spout entirely open, or, if desirable, entirely detached from the measure. The funnel-shaped nose or spout and the strainer, or the spout without the strainer, can be attached to all sizes of measures used in handling fluids where funnels are now used, and may be attached to pails and other vessels for measuring or handling liquids, and thus dispense with the use of funnels; and the adjusted strainer can be attached or removed at the will of the person using the same, or may be entirely omitted without interfering with the use of my invention.

What I claim as my invention, and which I desire to secure by Letters Patent, is—

An ordinary measure or vessel for measuring or handling fluids, in combination with a funnel-shaped spout, B, provided with strainer C, with end perforations, *f f*, with strainer attached to the measure or vessel by means of rivets *e e*, substantially as set out, as and for the purposes stated.

EMIL STEINHORST.

Witnesses:
J. K. BROWN,
RICHARD EVANS.