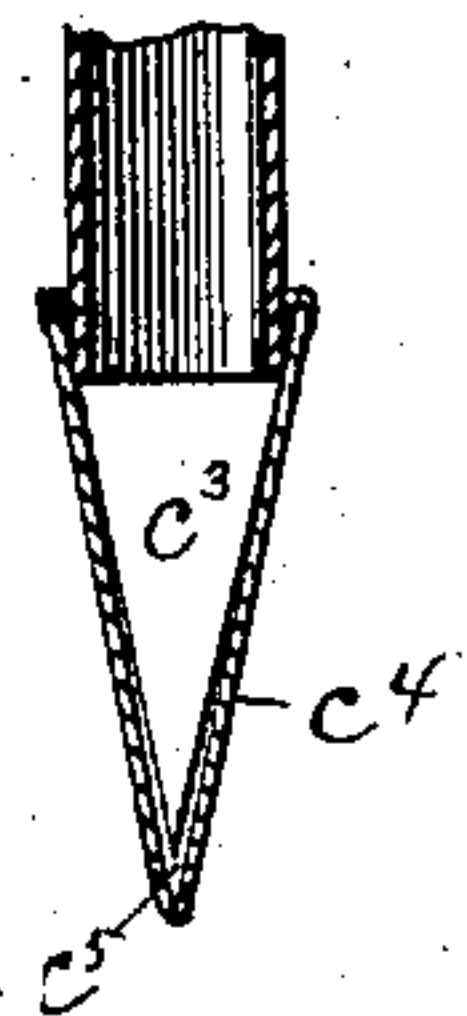
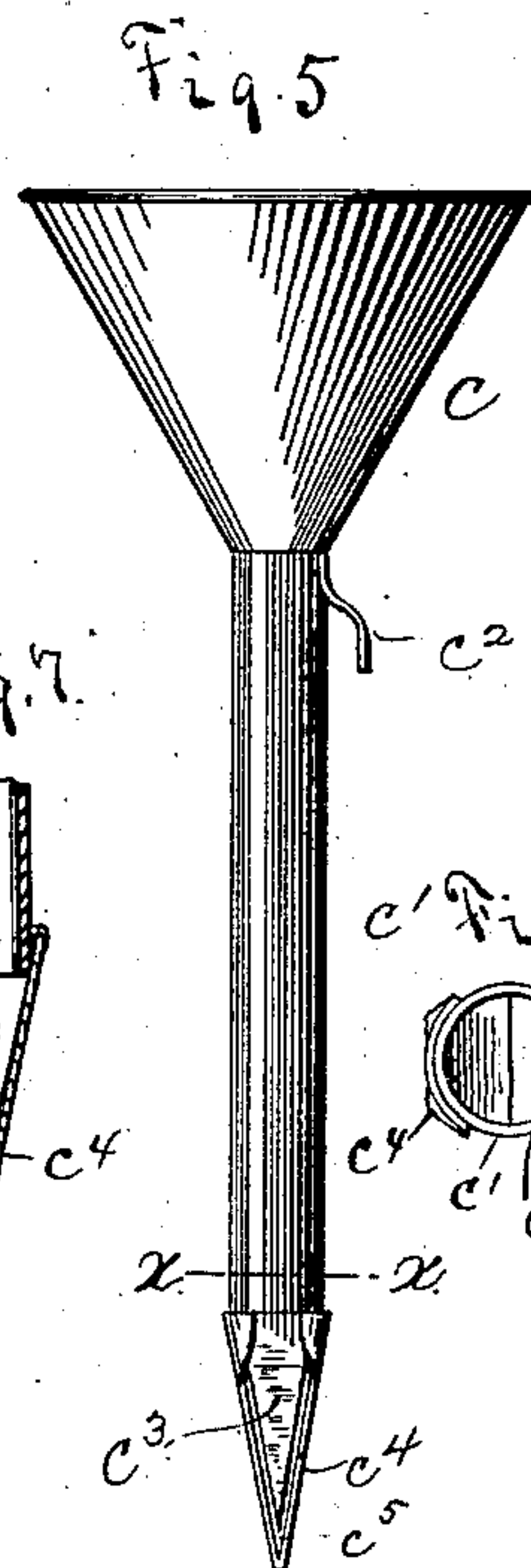
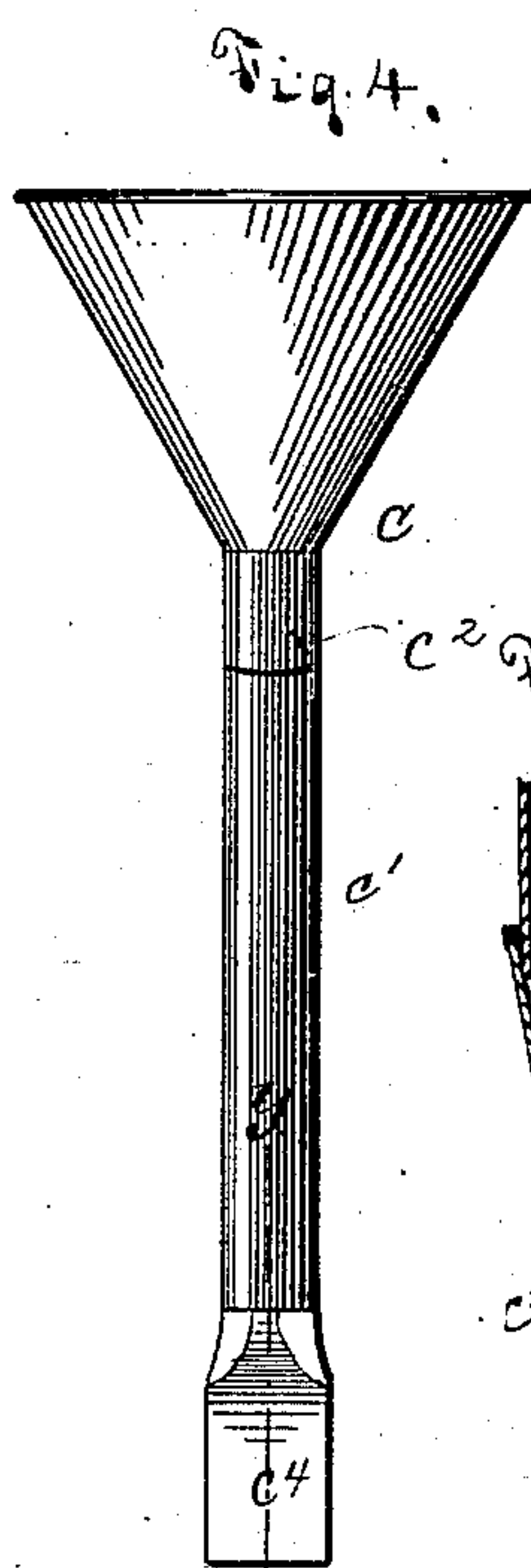
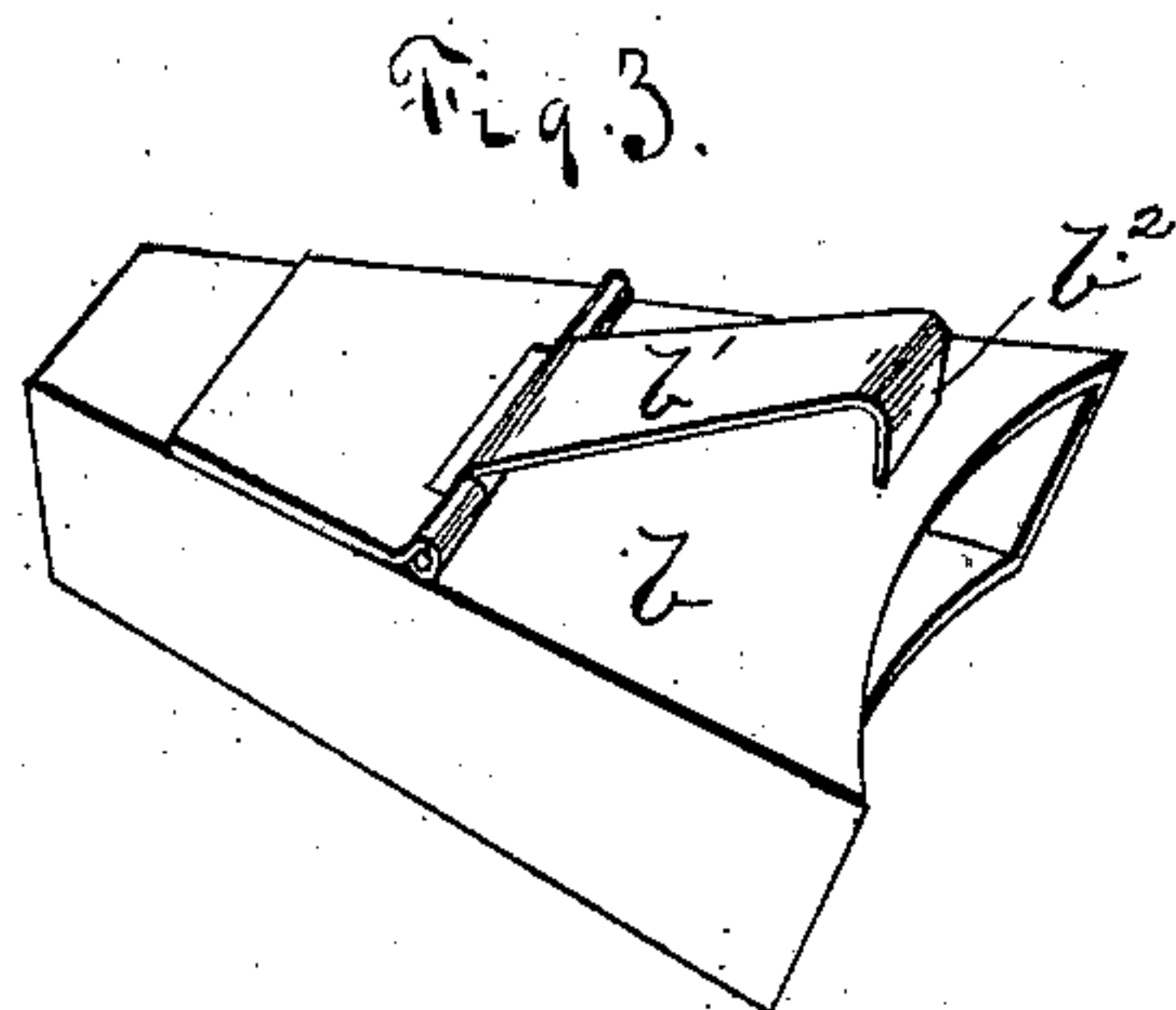
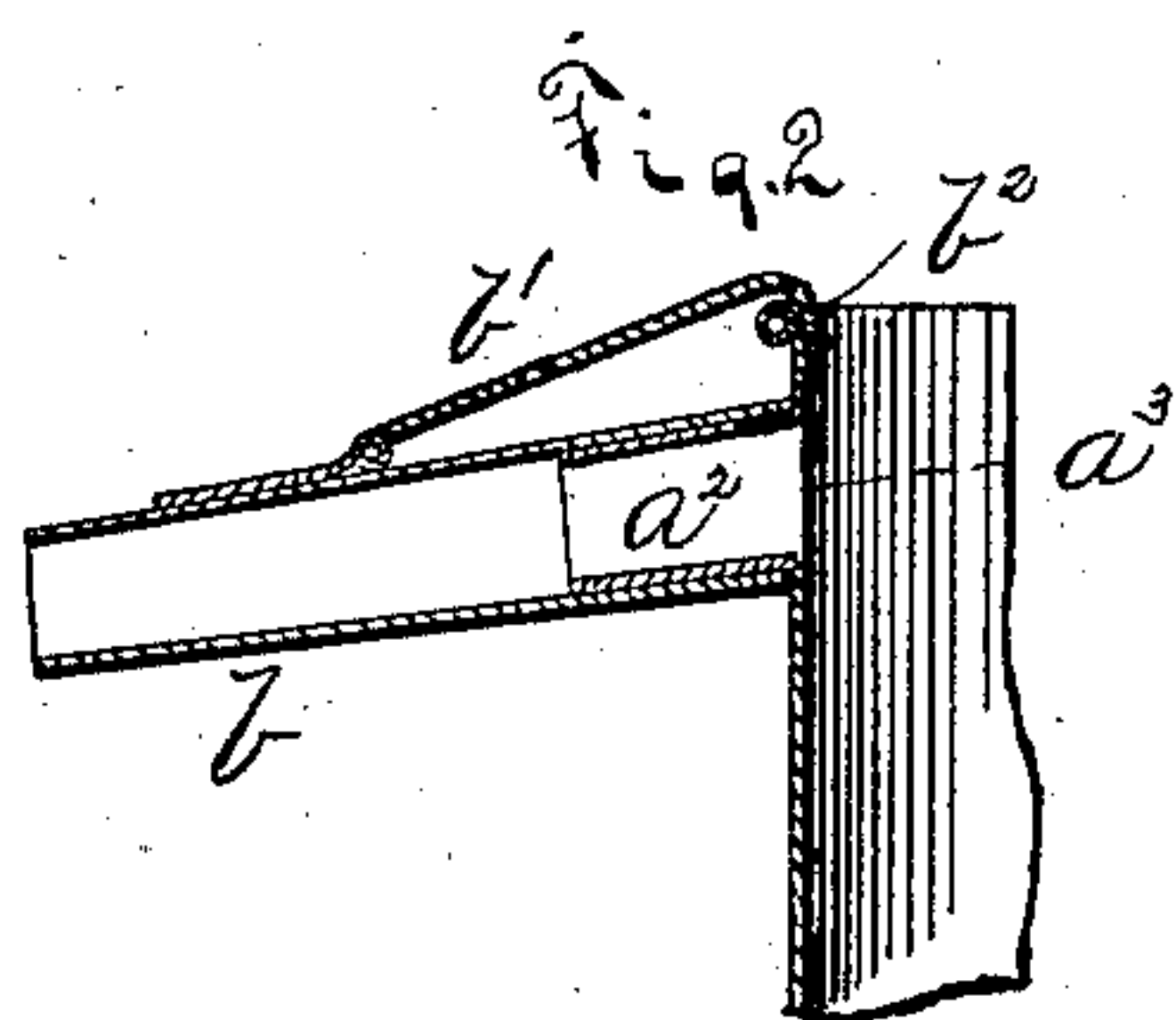
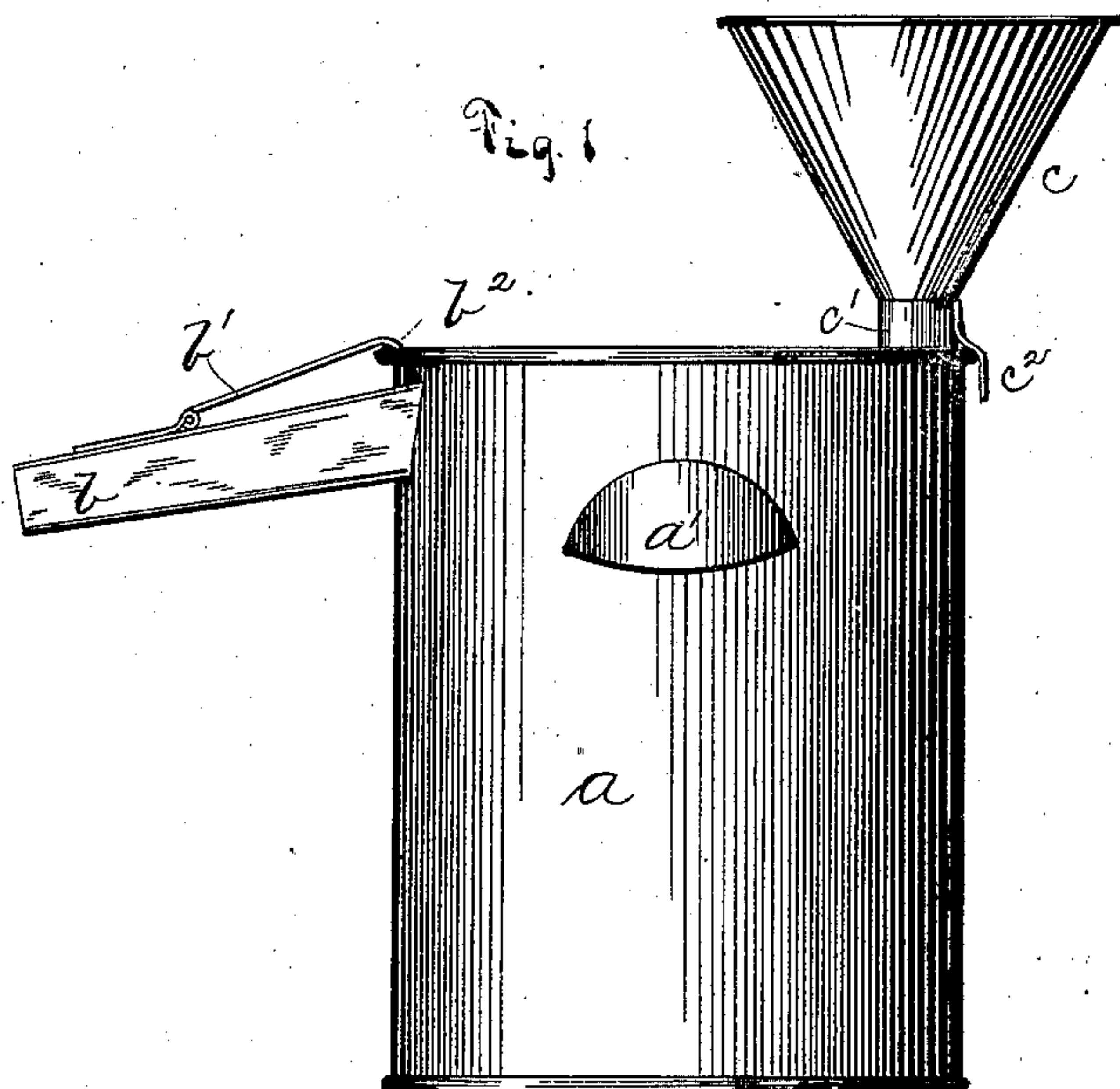


(No Model.)

D. STOVER,
CREAM SKIMMING APPARATUS.

No. 293,986.

Patented Feb. 19, 1884.



Witnesses.
W. H. Clark
R. B. Impin

Inventor
y. David Stover
By R. B. & A. Lacey
Attys

UNITED STATES PATENT OFFICE.

DAVID STOVER, OF LA MOTTE, IOWA.

CREAM-SKIMMING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 293,986, dated February 19, 1884.

Application filed July 27, 1883. (No model.)

To all whom it may concern:

Be it known that I, DAVID STOVER, a citizen of the United States, residing at La Motte, in the county of Jackson and State of Iowa, have invented certain new and useful Improvements in Cream-Skimming Apparatus; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in creamers or cream-skimming apparatus; and it consists in the construction, combination, and arrangement hereinafter described and claimed.

In the drawings, Figure 1 is a side view of my improved creaming apparatus. Fig. 2 is a detached vertical section thereof, and Fig. 3 is a detail view of the supplemental spout detached from the can. Figs. 4 and 5 are side and edge views of my improved funnel for delivering water or milk to the holding-can below the body of the cream. Fig. 6 is a detached sectional view on line *x x*, Fig. 5; and Fig. 7 is a detached section on line *y y*, Fig. 4.

The can *a* is of usual shape, and is provided with side handles, *a'*. Near the top of the can I provide a spout, *a''*, which is inclined downward slightly, and is fixed to the side of the can, and communicates therewith through a suitable opening, *a'''*.

The supplemental spout *b* is made longer than the spout *a''*, and is adapted to fit over the same, as shown, its inner end being rounded, to fit the sides of the can. On the top of this supplemental spout I hinge the metallic bar *b'*, the end of which is bent to form the hook *b''*, which is made of a length to turn over the upper edge of the can when the supplemental spout is in place, and the said hook *b''* is made with sufficient spring to hold the spout *b* firmly up against the can. The spouts *a''* and *b* are of a gradually-decreasing diameter outwardly, and the spout *b*, at its outer end, terminates in a small opening, through which the cream, in the operation of the invention, pours in a

fine stream into the vessel set to receive it. By means of these spouts *a'' b* a broad passage for the reception of the cream is provided, and it is delivered into the vessel set to receive it in a fine stream, as described, and as will be understood on reference to the drawings.

In the operation of the invention, water or milk is admitted into the can at a point below the body of the milk and raises the cream, which passes off through opening *a'''* and spouts *a''* and *b*. This I accomplish by means of the construction which I will now describe. It consists in a funnel, *c*, the tube *c'* of which is extended a suitable length to reach to or nearly to the bottom of the can. This funnel is provided with a suitable hook, *c''*, arranged near the base of its funnel proper, and its lower end is made wedge-shaped, as shown. To secure this wedge shape, I cut away the lower end of the funnel-tube *c'*, on opposite sides thereof, in such manner as to leave the plates *c'''* diametrically opposite each other and tapered at their lower ends to a point, as shown. The covering-plate *c''* is then bent over the lower end of the tube, with its upper end secured to the sides of the tube, as shown, and it is so arranged as to leave a small space, *c''''*, between its inner surface and the edge of the plates *c'''*, through which the water or milk passes as it is poured into the mouth of the funnel.

In practice it will be understood that when the milk has stood a suitable time and the cream has properly "set," the funnel is passed down through the cream until its lower end reaches the milk below the body of the cream. Its wedge-shaped lower end with a sharp edge causes but slight displacement of the cream, and none of the latter enters the funnel-tube, as would be the case were it the ordinary open-bottom tube. It will be understood that good results could be had were the lower end of the tube brought to a point and provided with openings on the side near its said end; but I prefer the wedge shape shown and before described.

In practice the hook *c''* may be caught over the edge of the can and support the funnel as the water or milk is being poured in to float the body of cream up, as will be readily understood on reference to Fig. 1.

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

5 1. In a cream-skimming apparatus, the funnel having extended tube, the lower end of which is brought to a point or cutting-edge, and provided with side openings near its said end, substantially as set forth.

10 2. In a cream-skimming apparatus, the combination of the tube c' ; having its lower end cut away on opposite sides, forming the V or wedge shaped extension c , and the plate c^t , secured on said end, substantially as described,

whereby the side openings, c^s , are provided, substantially as and for the purposes specified. 15

3. As an improved article of manufacture, the funnel c , provided with hook c^2 , and having its lower end formed with plates c^3 , and provided with plate c^t , all arranged and operating substantially as set forth. 20

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

DAVID STOVER.

Witnesses:

WM. KUNZ,

WM. G. STUART.