

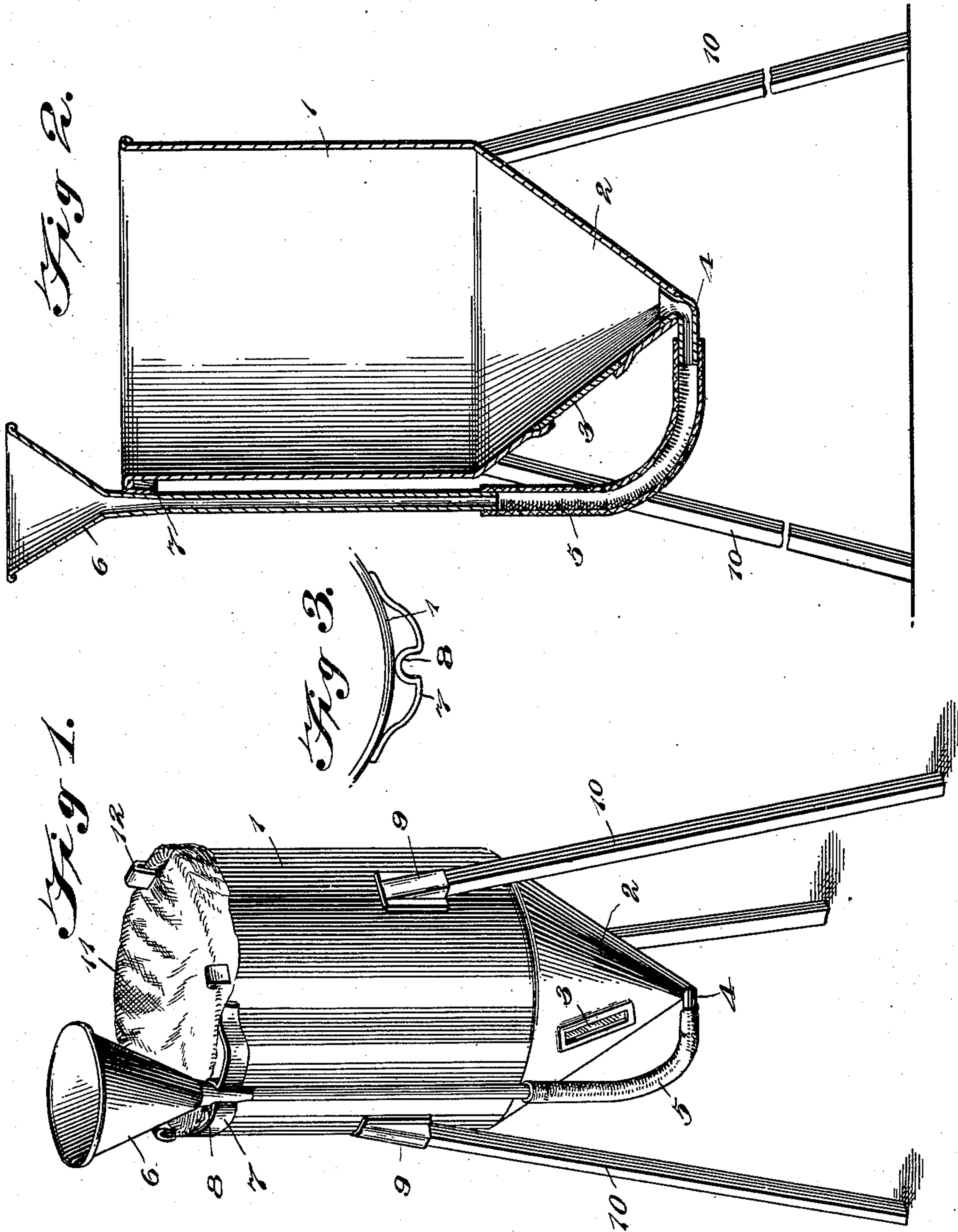
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Patented Nov. 20, 1900.

C. B. TITUS & P. BATTEY.  
CREAM SEPARATOR.

(Application filed May 16, 1900.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

CHARLEY B. TITUS AND PETER BATTEY, OF LITTLE RIVER, KANSAS.

## CREAM-SEPARATOR.

SPECIFICATION forming part of Letters Patent No. 662,325, dated November 20, 1900.

Application filed May 16, 1900. Serial No. 16,914. (No model.)

*To all whom it may concern:*

Be it known that we, CHARLEY B. TITUS and PETER BATTEY, citizens of the United States, residing at Little River, in the county of Rice and State of Kansas, have invented a new and useful Cream-Separator, of which the following is a specification.

This invention relates to cream-separators which employ water as a separating agent, and has for its object to provide improved means for applying the water to the bottom of the volume of milk, so as to avoid agitating the same. It is also designed to provide for the convenient drawing off of the liquid contents of the device, so that the diluted milk may not mix with the cream, and also to provide for the convenient and efficient cleansing of the parts of the separator, so as to maintain the device in a proper sanitary condition.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a cream-separator constructed in accordance with the present invention. Fig. 2 is a central vertical longitudinal sectional view thereof. Fig. 3 is a detail top plan view showing the means for holding the common inlet and outlet tube to the body of the device.

Corresponding parts are designated by like characters of reference in all the figures of the drawings.

Referring to the drawings, 1 designates the body of the device, which is preferably in the form of a cylindrical can that is open at its upper end and is provided with an inverted conical bottom 2. In one side of the latter and adjacent to the lowermost portion thereof there is provided a transparently-covered opening or longitudinal slot 3, so that the interior of the conical bottom may be readily seen.

Projecting laterally from the lowermost portion or apex of the conical bottom is a short pipe or nipple 4, which communicates with the interior of the body of the device, and fitted to the outer end of this nipple is a flexible tube 5. To the opposite end of the flexible tube there is fitted the stem or neck of a funnel 6, which is normally held in an upright position against the outer side of the device by means of a clamp or bracket 7, so that the bowl of the funnel may be disposed above the top of the can or body 1. This bracket or clamp is formed from a single length of spring metal having its opposite ends fixed to the outer side of the body adjacent to the upper end, and its intermediate portion bowed outwardly and then bent into a substantially U-shaped spring socket or jaw for the reception of the stem of the funnel, so that the latter may be detachably held in an upright position against the outer side of the device.

At equal intervals around the outer side of the body there is provided a plurality of downwardly-opening sockets 9 for the detachable reception of the upper ends of suitable leg-standards 10, which flare outwardly, so as to form a firm support for the device and elevate the bottom of the latter a suitable distance above the support upon which it may be placed.

The upper open end of the body is provided with any suitable strainer, such as a cloth 11, which is held in place by means of spring clips or clamps 12, that embrace the cloth and the upper edge of the body of the device.

In the operation of the device the milk is poured through the strainer and into the interior of the body, after which cold water is poured into the funnel, so as to pass through the flexible tube and the nipple 4 into the bottom of the separator, thereby attacking the milk at the bottom thereof without agitating the latter, as would be the case were the water poured through the top of the can. After the device has stood for a suitable length of time the funnel is detached from the clamp or bracket and turned downwardly into a bucket or other receptacle, so that the water and diluted milk may be drawn off through the flexible tube and the funnel. The outward passage of the milk may be ob-



served through the transparently-covered opening 3, so as to prevent the cream from becoming mixed with the milk. When all of the contents of the body have been removed, 5 water may be introduced therein through the open upper end thereof and drawn off through the funnel, so as to effectually cleanse the entire device. It will now be understood that the legs are of a length to permit of the 10 funnel being placed lower than the bottom of the separator, so that the entire contents may be drawn therefrom.

What is claimed is—

1. A cream-separator, comprising a can or 15 receptacle, a common inlet and outlet at the bottom of the can and in direct communication with the interior thereof, a tube having a flexible connection with the outer end of the common inlet and outlet, the upper open 20 end of said tube being normally disposed in a vertical position, extended to or above the top of the can, and also movable to points below the bottom of the can, and means for detachably connecting the free end of the 25 tube to the can and holding said tube in an upright position.

2. A cream-separator comprising a can or 30 receptacle, a common inlet and outlet tube having a flexible connection with the can and in direct communication with the bottom of the interior thereof, the upper open end of said tube being normally extended to or above the top of the can, and a bracket carried by the can and for holding the free end

of the tube in an upright elevated position, 35 said bracket comprising a substantially horizontal bowed metal strap having its opposite ends secured to the upper portion of the exterior of the can, and its intermediate portion bent into a substantially U-shaped 40 spring-socket for the detachable reception of the upper end portion of the tube, whereby the latter is held in an upright position.

3. A cream-separator, comprising a can or 45 receptacle, having an inverted conical bottom, a substantially L-shaped nipple provided in the apex of the conical bottom and in direct communication with the interior of the can, a flexible tube having one end connected to the outer end of the nipple, a fun- 50 nel connected to the free end of the flexible tube and carried thereby, a spring clamp or bracket provided upon the exterior of the upper portion of the can, the stem of the funnel being normally and detachably held in 55 an upright position within the bracket or clamp, for the reception of a cooling agent, and leg-standards supporting the can and elevating the bottom thereof.

In testimony that we claim the foregoing as 60 our own we have hereto affixed our signatures in the presence of two witnesses.

CHARLEY B. TITUS.  
PETER BATTEY.

Witnesses:

GEO. G. GREEN,  
B. F. TROY.