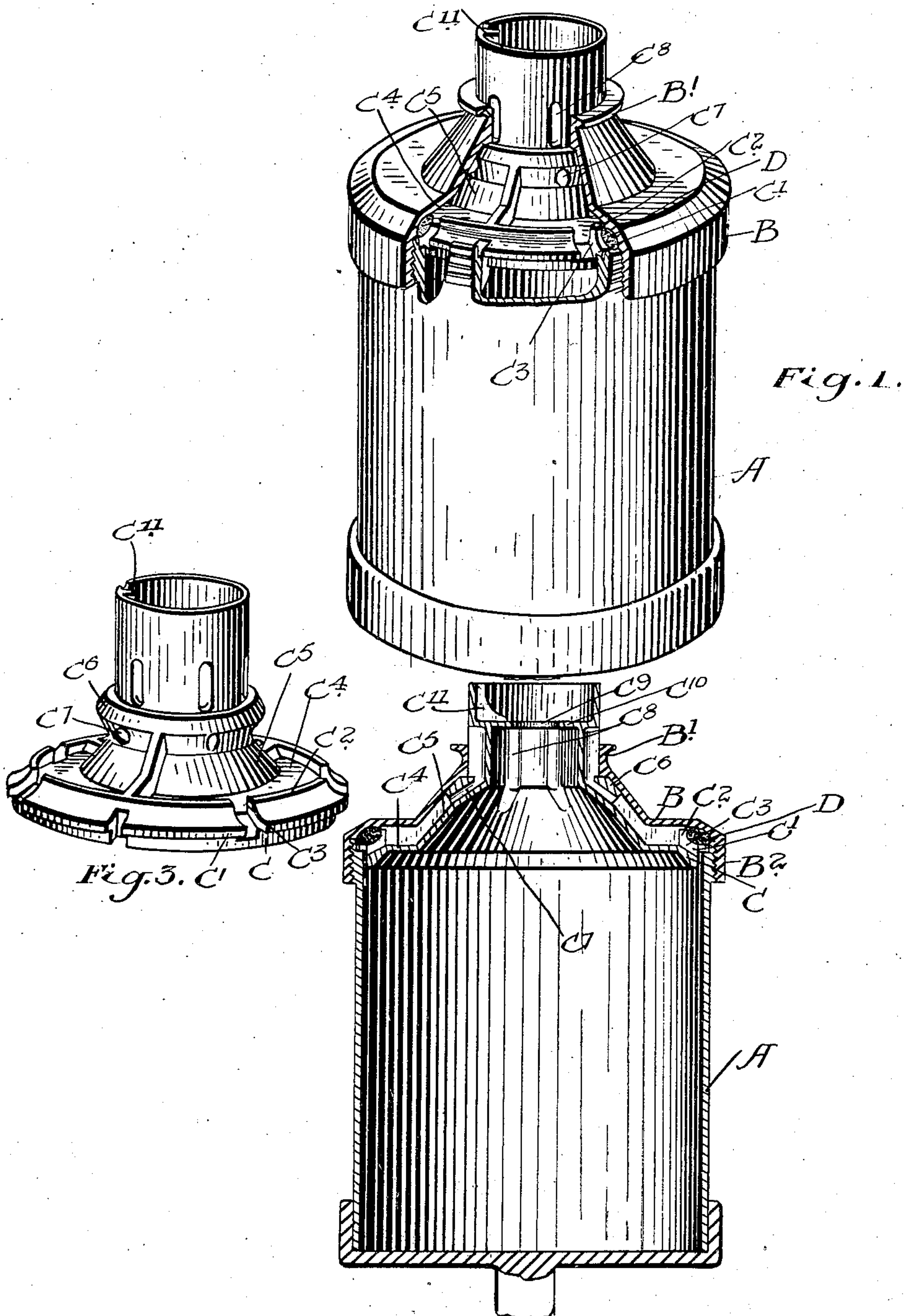


No. 868,140.

PATENTED OCT. 15, 1907.

A. S. STENBORG.  
CREAM SEPARATOR.  
APPLICATION FILED MAR. 21, 1907.



Witnesses  
*H. Young*  
*Richard K. Green.*

Fig. 2.

Inventor  
A. S. Stenborg.  
by *Fred. B. Fetterlin*  
att'y.

# UNITED STATES PATENT OFFICE.

AMANDUS SIGFRID STENBORG, OF GUELPH, ONTARIO, CANADA.

## CREAM-SEPARATOR.

No. 868,140.

Specification of Letters Patent.

Patented Oct. 15, 1907.

Application filed March 21, 1907. Serial No. 363,717.

To all whom it may concern:

Be it known that I, AMANDUS SIGFRID STENBORG, of the city of Guelph, in the county of Wellington, in the Province of Ontario, Canada, manufacturer, have  
5 invented certain new and useful Improvements in Cream-Separators, of which the following is the specification.

My invention relates to improvements in cream separators, and the object of the invention is to provide a means of separating the skim milk from the cream, which will dispense with the use of tubes now commonly employed, and which will always insure of a thorough separation and it consists essentially of a bowl having a detachable top, a skimming shield located within the top and provided with holes or notches in its bottom peripheral edge and a passage-way for the skim milk leading from the exterior of the shield through a rim formed on the outside conical portion of the shield and the upper cylindrical portion to a point  
15 above the top of the cap outside of the cylindrical portion, and a hole in the upper flange of the shield for the passage of the cream from the interior of the shield as hereinafter more particularly explained.

Figure 1, is a perspective view of a cream separator constructed in accordance with my invention, portion being broken away and in section. Fig. 2, is a vertical section. Fig. 3, is a detail of the skimming shield.

In the drawings like letters of reference indicate corresponding parts in each figure.

30 A is the body of the bowl of a cream separator or other fluid separator, which may be of any suitable form.

B is the detachable top or cover of the bowl, which tapers upwardly to a neck B' and is provided with a downwardly extending flange B<sup>2</sup>, whereby it is screwed to an exteriorly threaded flange on the top of the bowl.

C is the skimming shield, which is provided at the bottom with an exterior lateral outwardly extending flange C' and notches or holes C<sup>3</sup>, and an upwardly  
40 extending flange C<sup>2</sup> through which notches C<sup>3</sup> descend.

D is a packing ring fitting between the flanges.

The skimming shield is provided with a horizontal rim C<sup>4</sup>, and a conical portion C<sup>5</sup> extending upwardly therefrom whereby a space is left between the skimming shield and the cap and C<sup>6</sup> is a rim formed at the upper end of the conical portion and forming a shoulder against which the cap abuts and fits.

C<sup>7</sup> are passage-ways extending through the rim C<sup>6</sup> and interiorly through bosses C<sup>8</sup> projecting to the inside of the shield. The passage-ways C<sup>7</sup> terminate at the top above the top of the cap.

C<sup>9</sup> is a hole in the interior flange C<sup>10</sup> forming part of the cylindrical portion of the skimming shield.

C<sup>11</sup> is a rib located in proximity to the hole C<sup>9</sup>.

The operation of my invention is as follows. The skimmed milk passes upwardly around through the notches C<sup>3</sup> and between the conical portion of the skimming shield and the cap and onwardly through the passage-ways C<sup>7</sup> and outwardly to the outside and entirely clear of the interior of the shield. The cream passes up through the hole C<sup>9</sup>. It will thus be seen that the skim milk is entirely separated from the cream and there is no liability of it coming in contact therewith as it passes out from the separator on account of the cream being carried upwardly through the hole C<sup>9</sup> to the inside of the skimming shield.

What I claim as my invention is:

The combination with a centrifugal separator bowl having a tapered cap suitably secured thereon, of a skimming shield having a tapered lower portion and a cylindrical upper portion and having the bottom rim resting on the upper edge of the bowl, and provided with notches for the escape of the skimmed milk and a horizontal rim and a conical extending portion extending upwardly therefrom whereby a space is left between the cap and the skimming shield, and an annular rim and bosses formed in the shield on the interior thereof, and passage-ways extending outside of the shield through the rim and bosses to a point above the top of the cap and a hole extending through a flange in the interior of the cylindrical portion of the skimming shield as and for the purpose specified.

AMANDUS SIGFRID STENBORG.

Witnesses:

B. BOYD,

J. HALL.