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2,707,558

FLOUR SIEVE

Filed April 10, 1952

Fig. 1.

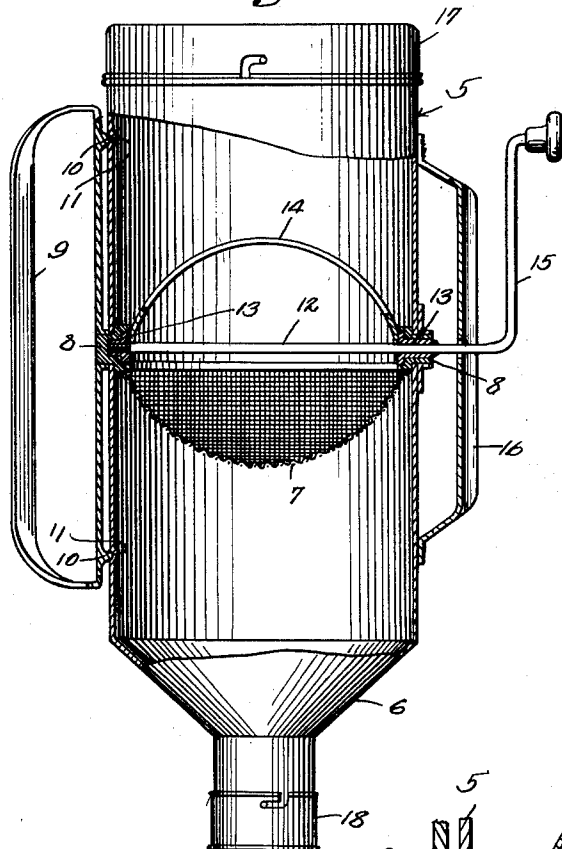


Fig. 2.

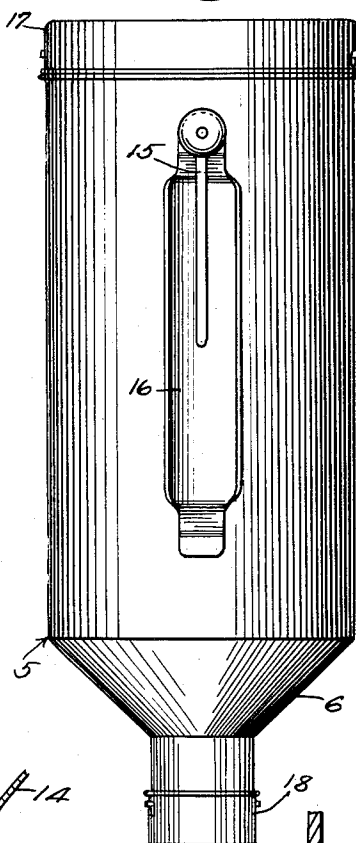


Fig. 3.

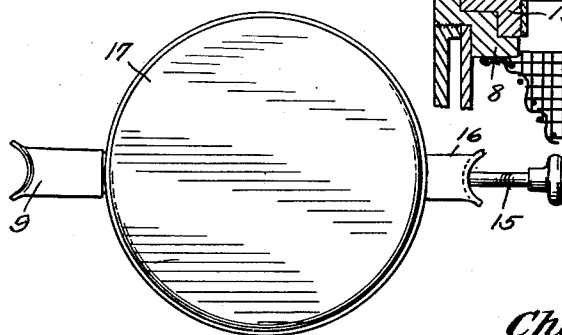
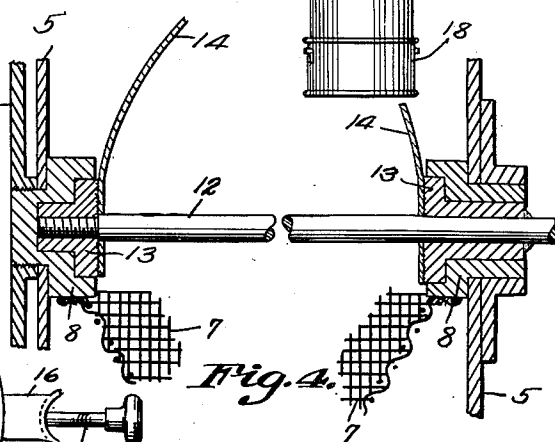


Fig. 4.



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FLOUR SIEVE

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1 Claim. (Cl. 209—251)

This invention relates to flour sieves designed for domestic use, the primary object of the invention being to provide a flour sieve wherein the screening element is so constructed and arranged within the body that it may be readily reversed for repeatedly screening the flour, grain or other material being sifted, while the flour, grain or other material is contained within the body, thereby obviating the necessity of transferring the flour, grain or material from the sieve to a receptacle, and then returning the material to the upper portion of the sieve for repeated sieving.

An important object of the invention is to provide a sieve of this character wherein the supporting handle of the sieve is pivotally connected with the body so that the sieve body may be rotated or reversed for repeated sieving of the material, while the supporting handle is held stationary in a supporting position eliminating the necessity of reversing the handle in the hand to repeat the sieving operation.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claim, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

Referring to the drawing:

Figure 1 is a longitudinal sectional view through a sieve constructed in accordance with the invention.

Fig. 2 is a side elevational view of the sieve.

Fig. 3 is a plan view thereof.

Fig. 4 is an enlarged detail view illustrating the sieve and sieve operating handle.

Referring to the drawing in detail, the body portion of the sieve is indicated generally by the reference character 5, the body portion being provided with a funnel-shaped end 6 through which material is discharged from the body portion into a receptacle or bowl.

Mounted within the body portion and disposed substantially intermediate the ends thereof, is the screen 7 which is secured to the bearing members 8 mounted within bearing openings in the body portion so that the screen may be readily rotated within the body portion for repeated sieving of the material.

Secured to one of the bearings 8, is the handle 9 by means of which the sieve is held during the sieving of the material contained therein, the handle 9 providing means to also rotate the screen 7 to reverse the screen within the body portion for repeated screening. Lugs 10 extend from the handle and are designed to fit in depressions 11 formed in the body, to normally hold the handle against movement with respect to the body.

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The reference character 12 indicates a shaft which extends through the members 13 that are mounted within the bearings 8, the members 13 being secured to the shaft 12 to rotate therewith. The shaft 12 provides a support for the beater 14 which moves within the screen 7 to force the material through the screen as it rotates. One end of the shaft 12 is formed into a crank handle 15 so that the shaft 12 may be rotated to accomplish the sieving operation.

As shown the shaft 12 extends through an opening formed intermediate the ends of the handle 16 which is secured to the body portion 5 at a point directly opposite to the handle 9, the handle being provided for the purpose of locating the body portion to cover the body portion for repeated sieving, while the body portion is being supported in the hand by means of the handle 9.

One end of the body portion 5 is closed by the cap 17 and is the large end of the body portion through which material is deposited in the sieve or screen 7.

The cap 18 closes the funnel shaped end of the body portion and may be readily and easily removed or replaced, as desired.

In using the sieve for repeated sieving, the material is deposited on the screen 7 and the device is held in the hand by the handle 9. The crank handle 15 is now rotated, moving the beater 14 over the screen and through the material causing the screening of the material, the screened material passing to the lower end of the body portion.

With the body portion supported in the hand of the operator by gripping the handle 9, the handle 16 is gripped and the handle 9 is now rotated moving the screen 7 to an inverted position. With the screen thus supported the body portion is rotated which causes the material to fall into the screen, whereupon the beater may be rotated to screen the material. This operation may be repeated the desired number of times necessary for the proper screening of the material.

Having thus described the invention, what is claimed is:

A sieve of the class described, comprising a body, means for closing said body, said body having diametrically opposite bearing openings in the wall thereof, bearings mounted in said bearing openings, a shaft extending transversely through said body intermediate the ends thereof, an elongated handle formed on one end of said shaft, for effecting rotation of said shaft, bearing members secured to said shaft operating in said bearings, an elongated supporting handle secured to one of said bearings and by means of which said body is held, lugs extending from said handle movable within depressions formed in said body, normally holding said handle against rotation with respect to said body, a cup-shaped screen secured to said bearings rotatable within said housing, mounted within said body, a second handle secured at its ends to said body directly opposite to said elongated supporting handle, for effecting rotation of said body, and a beater secured to said shaft within the body operating within said cup-shaped screen for forcing material through said cup-shaped screen.

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