

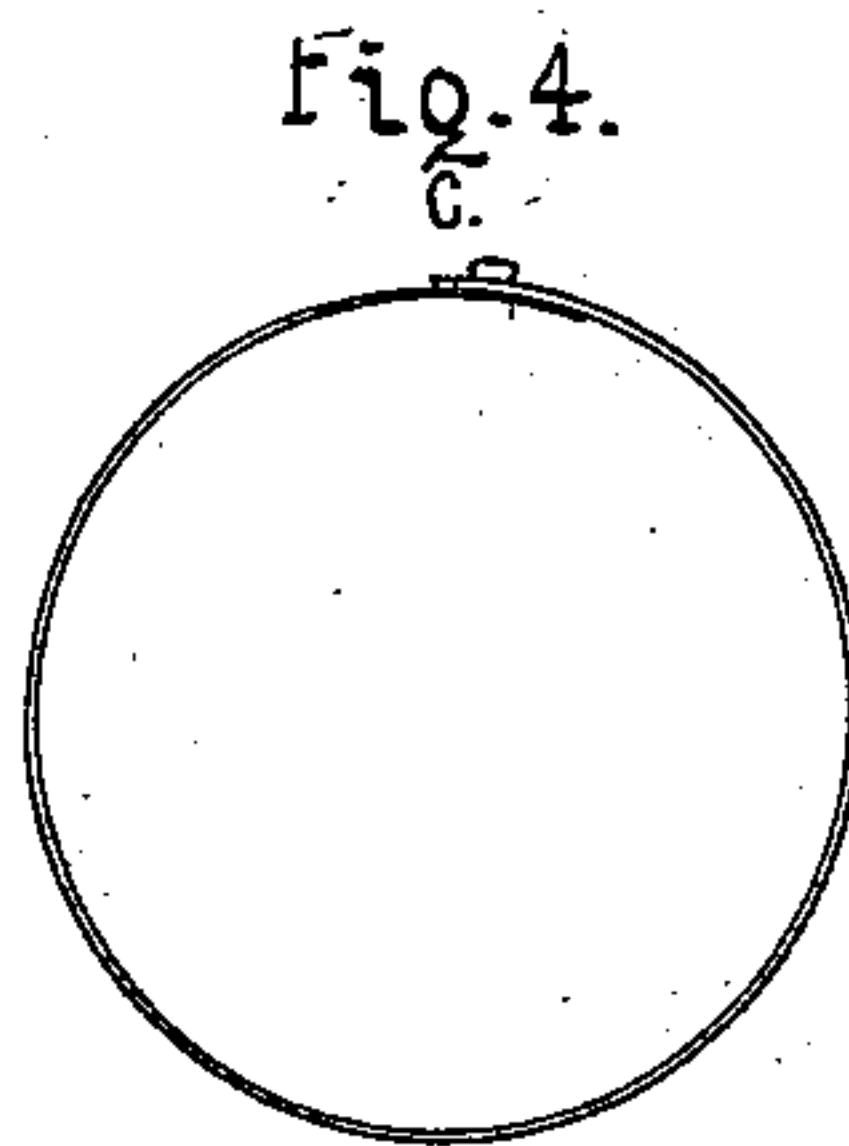
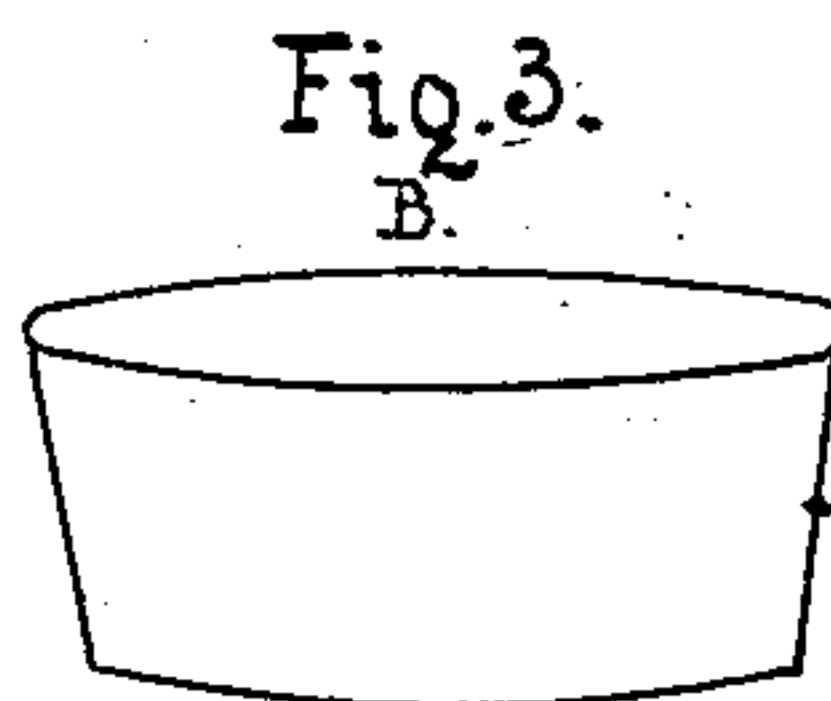
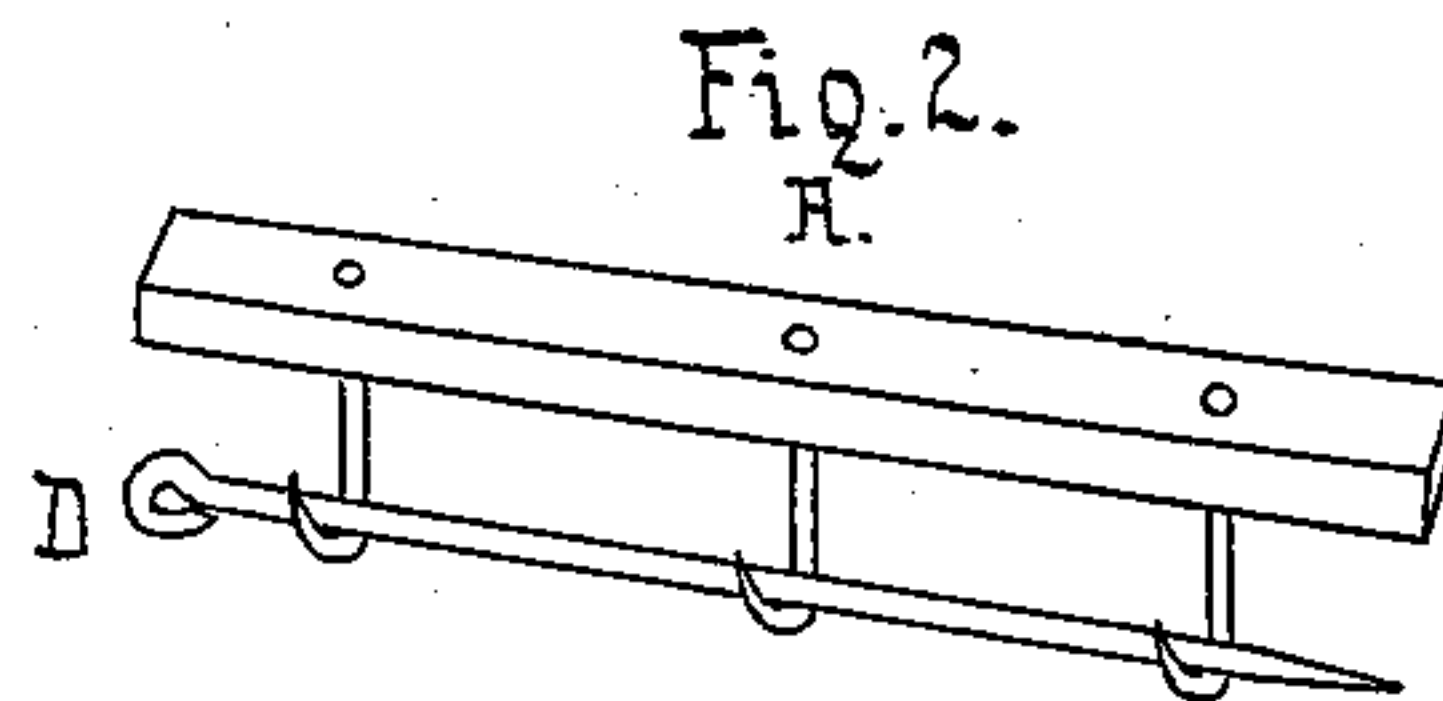
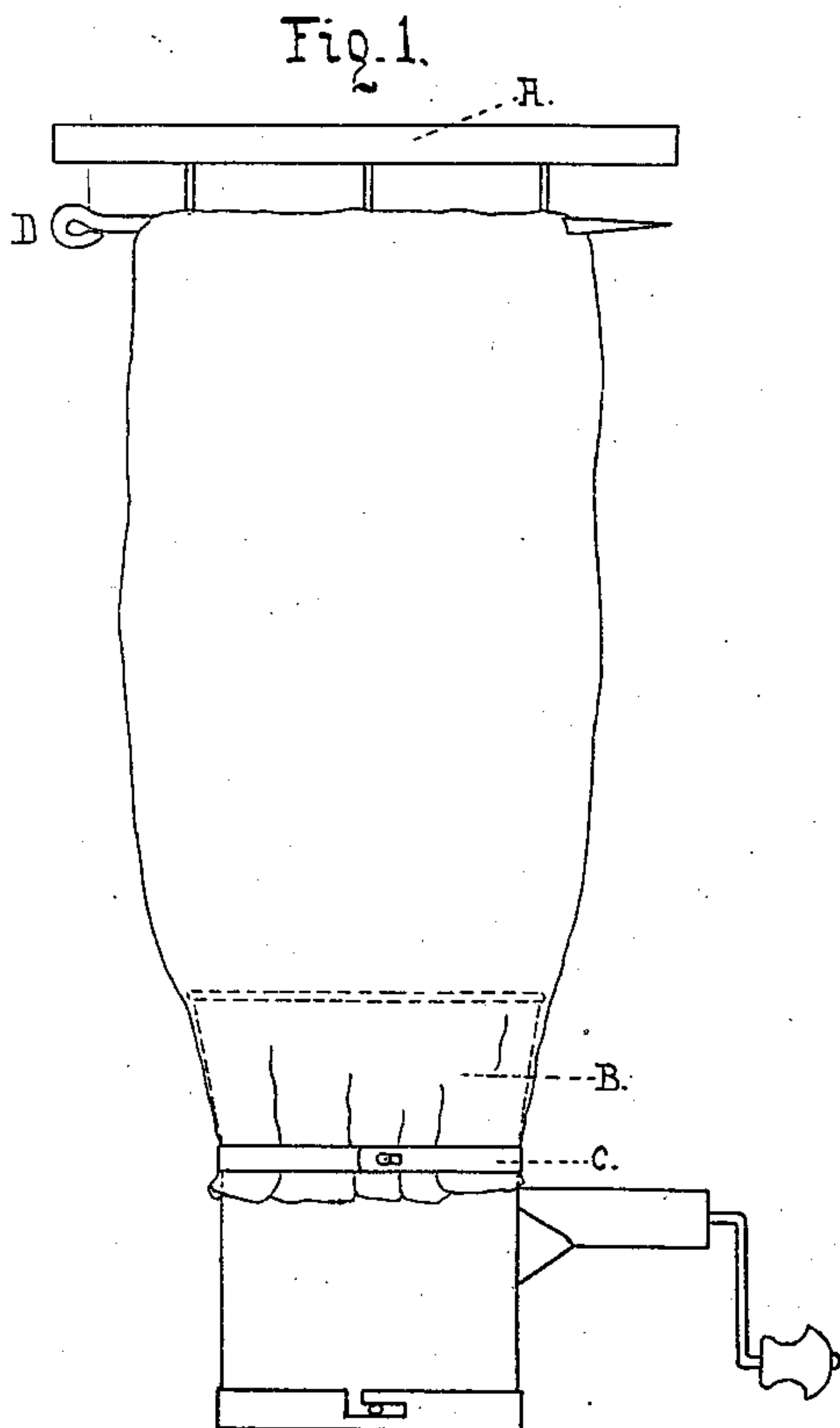
(No Model.)

2 Sheets—Sheet 1.

B. P. QUAINANCE.  
ROTARY FLOUR SIFTER.

No. 544,689.

Patented Aug. 20, 1895.



Witnesses.

Charles H. Jenkins  
Richard Lichtenheld

Brough P. Quainance  
Inventor.

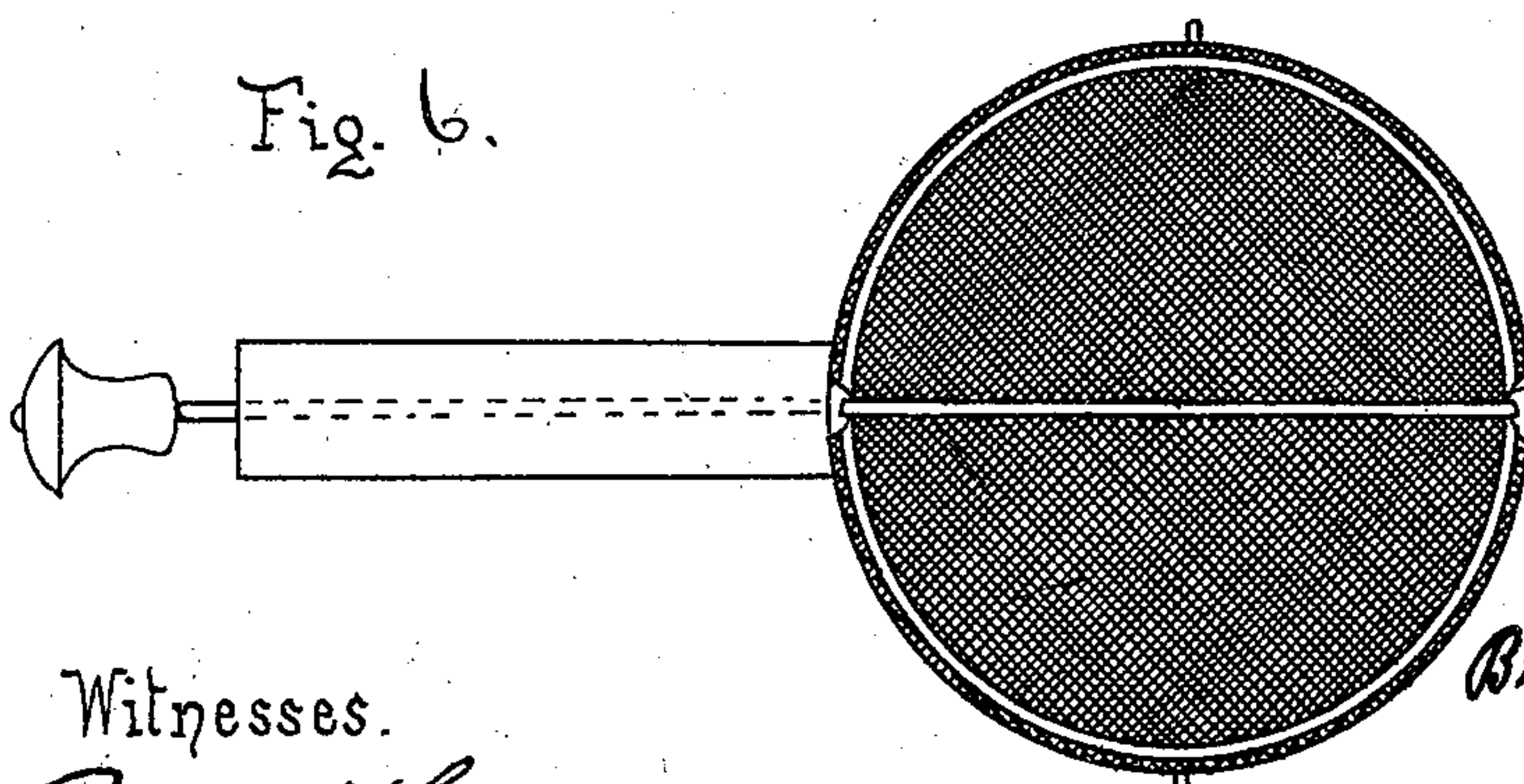
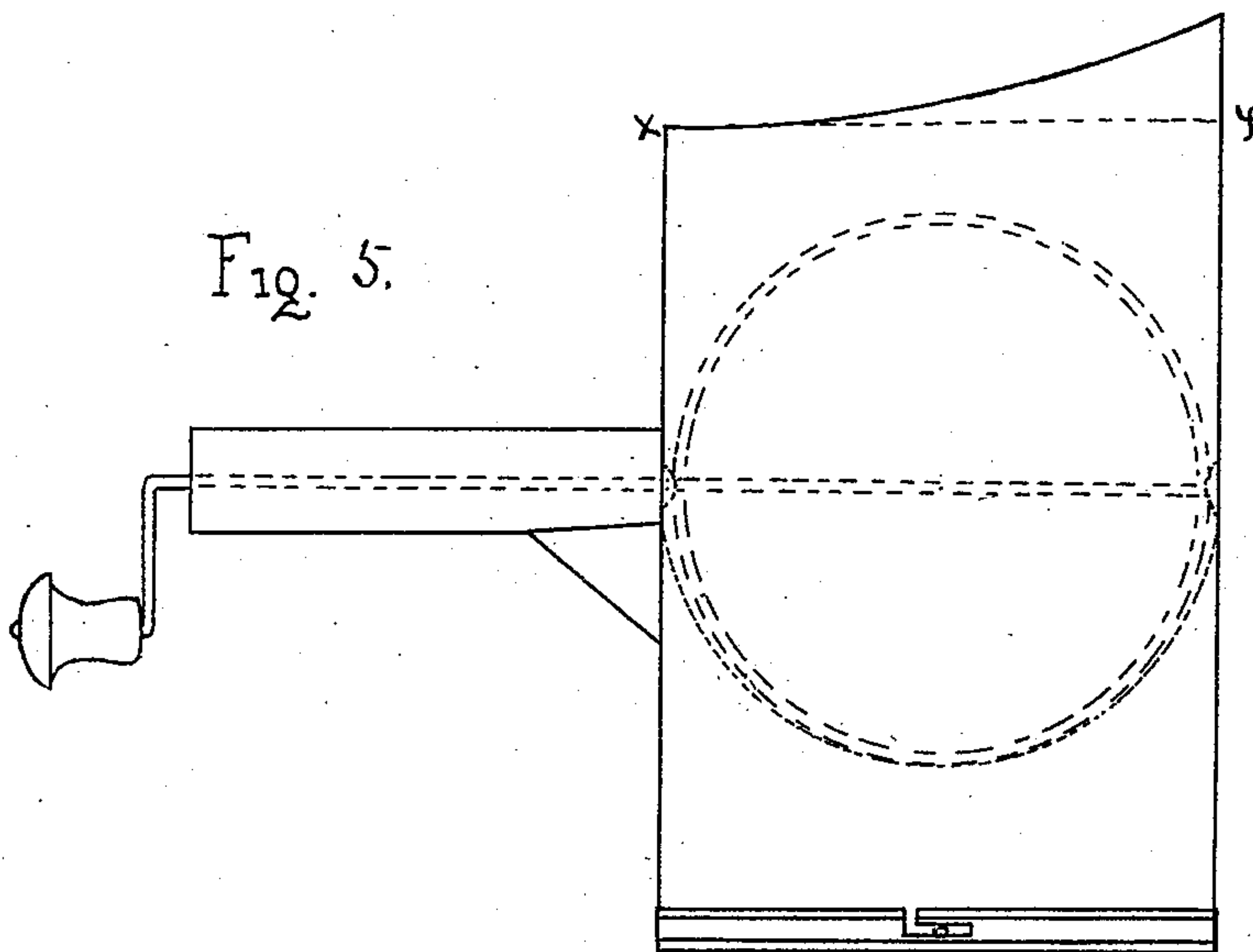
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ROTARY FLOUR SIFTER.

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Witnesses.

*Richard Lichtenheld.*  
*Charles H. Fredking*

*Brough P. Quainance*  
Inventor.



# UNITED STATES PATENT OFFICE.

BROUGH P. QUAINANCE, OF GOLDEN, COLORADO.

## ROTARY FLOUR-SIFTER.

SPECIFICATION forming part of Letters Patent No. 544,689, dated August 20, 1895.

Application filed April 17, 1895. Serial No. 546,093. (No model.)

*To all whom it may concern:*

Be it known that I, BROUGH P. QUAINANCE, a citizen of the United States, residing at Golden, in the county of Jefferson and State of Colorado, have invented a new and useful Improvement in Rotary Flour-Sifting Apparatus, of which the following is a specification.

My invention relates to an improvement in flour-sifters and accompanying apparatus, by which flour in suspended sacks is sifted directly from the sack; and the objects of my improvement are to retain flour in its original package as put up for sale (where put in sacks) until desired for immediate use, and then sifted directly from the sack, and thus avoiding waste and the inconvenience of emptying into bins, and also doing away with the bins themselves. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side view of the filled sack of flour suspended downward with the sifter attached to its mouth ready for use. Fig. 2 is a view of the apparatus by which the sack is suspended. Fig. 3 is a view of the flaring upper part of the sifter. Fig. 4 is a view of the band or clasp used to hold and clasp the flour-sack to the flaring part, Fig. 3, of the sifter. Fig. 5 (on the second sheet of the drawings) is a side view of the rotary sifter (old structure) in common use. Fig. 6 is a sectional view of the sifter, looking into it downward from the top. That part of Fig. 5 above the dotted line *xy* represents the spout on the old sifter used to take up the flour. In my invention this spout is not used, but that part of my invention represented by Fig. 3 begins at the dotted line *xy* on the old structure and extends above it, constituting the "flaring upper part" of the new sifter, Fig. 4. The band passes around the improved sifter just above the dotted line aforesaid.

Similar letters refer to similar parts throughout the several views.

An upright box or closet, of wood, of sufficient size to hold a sack of flour and the sifter attached thereto and suspending apparatus should be used with this invention. It should be of sufficient height to leave a few inches of room underneath the suspended sack for a receptacle for rolling-pin, &c. It should have a door in front on hinges and a fastener.

This is the preferable way to use it, though the sack may be suspended anywhere to suit the convenience of the user. 55

A is a bar, of wood or metal, provided with three or more hooks fastened thereto, as shown in Fig. 2. The pin D is run transversely through the flour-sack, as shown in Fig. 1, and the sack of flour hung on the hooks, catching under the pin D, thus distributing the weight evenly and not tearing the sack, as it is likely to do without the pin. 60

B is the upper flaring part of the sifter. It is an improvement on the ordinary rotary sifter in common use. 65

C is a metal band or clasp. It is slightly larger in circumference than B at the latter's smallest circumference. 70

In using this invention the flaring upper part of the sifter is inserted into the mouth of the sack, the folds of the sack being tightly drawn around such flaring part, and the metal band or clasp is adjusted over the folds of the sack, as shown in Fig. 1. The sack of flour then being inverted and the suspending apparatus attached, as described above, it is hung in the box or closet or other place provided for it and is ready for use. The weight of the flour pressing down tightens the sack and holds it in place. A leather strap provided with a buckle may be used in place of the metal band with same effect. A cover for the bottom of the sifter should be provided, as shown in Fig. 1, to prevent waste of flour in handling and suspending sack. 75 80 85

What I claim as my invention, and desire to secure by Letters Patent of the United States, is— 90

1. The combination of bar A provided with hooks and the pin D adapted to rest therein and to be passed through and sustain the bottom of a sack suspended therefrom.

2. The combination of the bar, the hooks and the pin adapted to sustain a flour sack with the sifting receptacle having a flaring upper portion adapted to enter the mouth of the sack and the band C for fastening and sustaining such sifter in a suspended position, all substantially as described. 95 100

BROUGH P. QUAINANCE.

Witnesses:

RICHARD LICHTENHELD,  
C. H. JUDKINS.