(No Model.)

F. BEANE.

FLOUR AND MEAL SAFE.

No. 451,362. Patented Apr. 28, 1891.

Fig. 1.

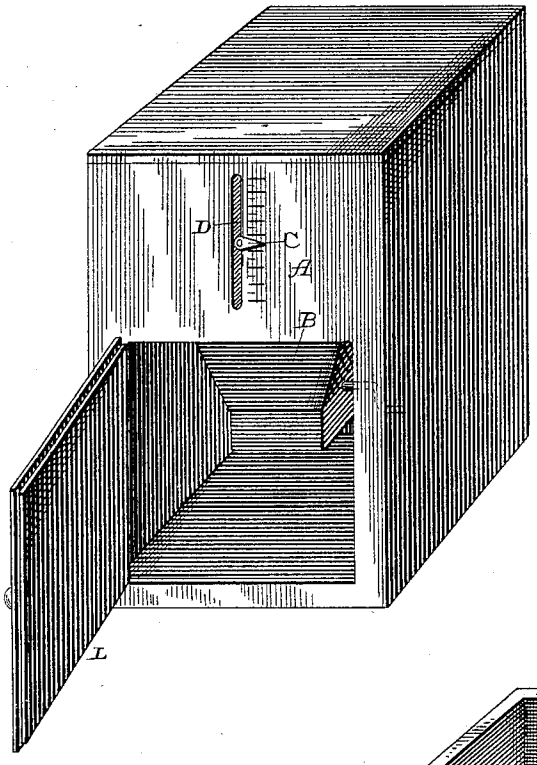


Fig. 2.

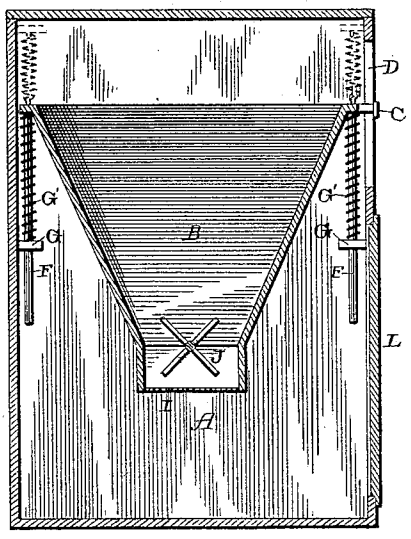
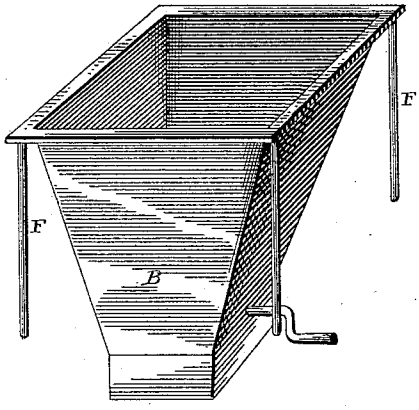


Fig. 3.



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UNITED STATES PATENT OFFICE.

FRANK BEANE, OF ALBA, MICHIGAN.

FLOUR AND MEAL SAFE.

SPECIFICATION forming part of Letters Patent No. 451,362, dated April 28, 1891.

Application filed January 2, 1891. Serial No. 376,637. (No model.)

To all whom it may concern:

Be it known that I, FRANK BEANE, of Alba, in the county of Antrim and State of Michigan, have invented certain new and useful Improvements in Flour and Meal Safes; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in flour and meal safes; and it consists in the combination, with the outer inclosing box, which is provided with suitable doors, of the bin which is placed inside of the box and supported upon suitable springs, an index which is attached to the bin, and a stirrer placed in the bottom of the bin above the sieve, as will be more fully described hereinafter.

The object of my invention is to provide a flour and meal safe that is designed to receive and keep in a pure condition flour, meal, and substances of like nature and in such a manner that access may at all times be readily and conveniently had thereto.

Figure 1 is a perspective of a safe which embodies my invention. Fig. 2 is a vertical section of a safe which embodies my invention. Fig. 3 is a detached view of the bin alone.

A represents an outside inclosing box or frame, in which the bin B is placed. This bin may either be of the shape here shown or any other that may be preferred, and which is made to have a vertical movement inside of the inclosing case A for the purpose of operating the index C, which is secured to the bin and which extends through a slot D, made in the front of the inclosing frame A, as shown. Projecting vertically from the four corners of the bin are the rods F, and the lower ends of these rods pass through perforated supports G or any suitable construction placed inside of the frame A. Upon these rods F are placed springs G', which serve to support the bin and which allow it to sink down from the weight of the article placed therein, and thus move the index C through the slot D over the graduated scale formed upon the outer side of the frame A.

While spiral springs are here shown which are compressed by the weight of the article placed in the bin, it is evident that the springs may be placed above the bin, as shown in dotted lines in Fig. 2, and be made to stretch as the bin descends. Should it not be desired to use spiral springs, flat or other springs may be used to support the bin; but the action of the bin will always be the same, no matter what form of spring is used. The object of the springs is to support the bin in a level position, so that it will freely move inside of its inclosing case. Instead of a vertical scale, a circular one may be used, if so desired.

The bottom of the bin is closed by a sieve I, and in the bottom of the bin above the sieve is journaled a stirring device J, which is provided with a crank or handle at one end. By revolving the stirrer the contents of the bin are sifted into a receptacle placed to receive it. The outer case A is provided with a door L at its front outer side, and through this door are passed the receptacles which are to catch the contents of the bin.

By observing the dial both before and after operating the sieve the amount of flour extracted at any one time can be readily ascertained.

Having thus described my invention, I claim—

The combination of the outer inclosing case provided with suitable doors or covers, the bin provided with vertical rods, springs placed upon the rods, the dial, the sieve, and the stirrer, substantially as shown and described.

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

FRANK BEANE.

Witnesses:
E. B. COOK,
CHARLIE BENTON.