

(No Model.)

L. RITCHIE.
FLOUR CHEST.

No. 442,202.

Patented Dec. 9, 1890.

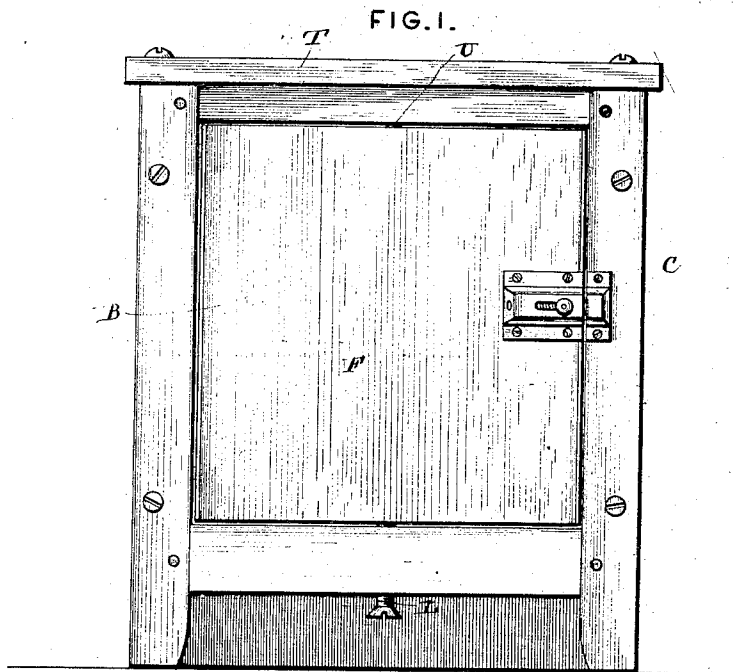


FIG. 2.

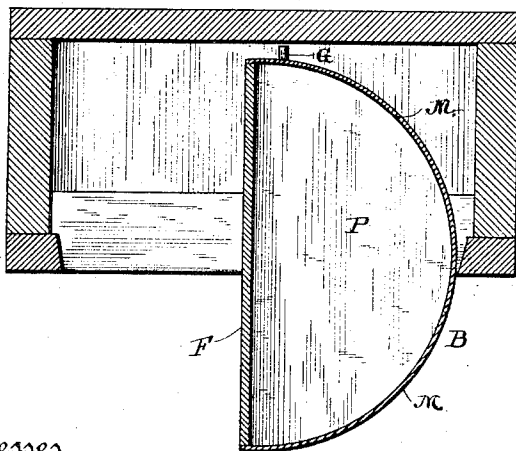


FIG. 3.

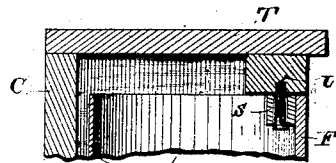
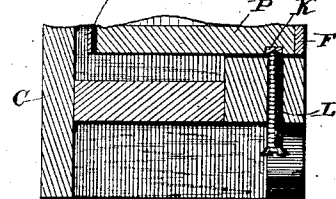


FIG. 4.



Witnesses
Harry L. Amer.

Inventor
Leroy Ritchie.

By his Attorneys
D. C. Colamer. C. A. Snow & Co.

BEST AVAILABLE COPY

UNITED STATES PATENT OFFICE.

LEROY RITCHIE, OF FAIR HAVEN, MINNESOTA.

FLOUR-CHEST.

SPECIFICATION forming part of Letters Patent No. 442,202, dated December 9, 1890.

Application filed April 11, 1890, Serial No. 347,475. (No model.)

To all whom it may concern:

Be it known that I, LEROY RITCHIE, a citizen of the United States, residing at Fair Haven, in the county of Stearns and State of Minnesota, have invented a new and useful Flour-Chest, of which the following is a specification.

This invention has reference to counters and shelves, and more particularly to the bins connected thereto, which are adapted to receive flour or grain; and the object of the said invention is to provide such a chest that can be easily opened and closed even when full, and that when violently closed will cause no reaction of air, tending to raise a dust or blow a portion of the flour from the chest.

To this end my invention consists of an approximately semicircular bin mounted on vertical pivots near the center of its diametric side in a suitable casing, all as hereinafter more fully described, and as illustrated in the drawings, in which—

Figure 1 is a front elevation of this improved flour-chest closed. Fig. 2 is a central horizontal section of the bin and casing with the former in a partly-opened position. Fig. 3 is an enlarged vertical transverse section through the upper pivot and socket, and Fig. 4 is a similar section through the lower pivot.

Referring to the said drawings, the letter C designates the casing, in this instance a cabinet, although it will be understood that it may be the lower part of a series of shelves or of a counter or other suitable piece of household or store furniture, so long as it is closed on all sides except its face.

The letter B designates the bin, which comprises a front piece F, adapted to closely close the opening in the casing; and a semicircular metallic back M, secured at its ends to the edges of the front, the bin being closed at the bottom by a wooden piece P. Across the rear face of the front at its upper edge extends a strip S, which is secured to said front to give it greater strength and thickness. The upper pivot of this bin consists of a screw U, passing upwardly loosely through the strip S and taking into the top T of the casing, upon and around which screw the said strip turns freely, as will be understood. The lower pivot consists of a pointed screw L, screw-

ing upwardly through a cross-beam in the casing, whereby it can be adjusted to take up wear, and a metallic socket K, seated in the lower edge of the front of the bin and adapted to turn upon the point of the screw L. Both these screws are at the center of the length of the front, as will be understood. The front F when the bin is closed stands flush with the front of the casing, and is held in that position by an ordinary cupboard-catch, as shown, or any other suitable device. To prevent the bin turning too far when it is closed, lugs G are secured to the edge of the front opposite the catch at such points that they will strike the inner face of the casing at that side when the bin is closed.

The operation of this device will be readily understood. The bin, having been partially filled with flour or other pulverized or granulated material, is closed and locked by the catch, and when in this position is completely out of the way. When it is desired to have access to the interior of the bin, as for the purpose of removing some of the contents thereof, the catch is unfastened and drawn upon, whereby this edge of the bin will be drawn to the front, the bin turning upon its pivots, as will be clearly understood, and the contents may be removed therefrom with an ordinary scoop. After using the device the bin is returned to its closed position by pressure upon the edge bearing the catch, and when it has reached its proper position the lugs G will strike the inner face of the casing and prevent the bin being turned farther. The lower pivot may be adjusted from the outside of the casing to take up wear and hold the upper edge of the front F tightly against the top T and to prevent leakage. This adjustment can take place without removing the bin and without even opening the same, and it causes the strip S to be pressed tightly against the top T while lifting the bottom P slightly off the bottom of the casing. When it is desired to remove the bin from the casing, the bin is turned on its pivots so as to stand open, and the operator can then reach into the top thereof and remove the screw U. The bin, being tipped forward so as to clear the casing, is then lifted from its lower pivot in a manner which will be readily understood. With this

construction it will be at once apparent that there will be no reaction of air, as in closing an ordinary bin having a hinged cover, which reaction so often drives a portion of the flour out into the room, causing an undesirable waste and a disagreeable dust.

The materials of which this device is composed need not be mentioned, but will vary according to the taste of the maker and user and the requirements of the case.

I claim as the salient points of this invention—

In a flour-chest, the combination, with the casing closed on all sides except a rectangular hole in its face and a strip across the upper edge of said hole, of a bin comprising a front fitting said hole, a strip across the up-

per edge of said front, and a semicircular bottom and a curved back secured to said front, an upper pivot-pin depending from said casing-strip and passing loosely through a hole in said front strip, and a lower pivot screwing upwardly through the bottom of the casing and engaging a socket in the bottom of the bin, all substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

LEROY RITCHIE.

Witnesses:

C. D. GRINOLS,
PERR. WEBB.