No. 805,047. PATENTED NOV. 21, 1905.

H. W. WATSON.

BIN.

APPLICATION FILED DEC. 5, 1904.

Fig. 1.

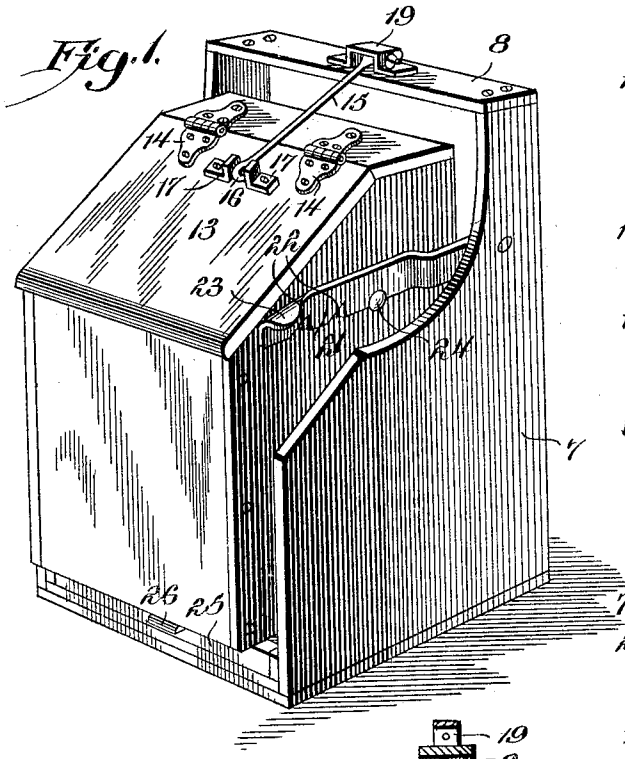


Fig. 2.

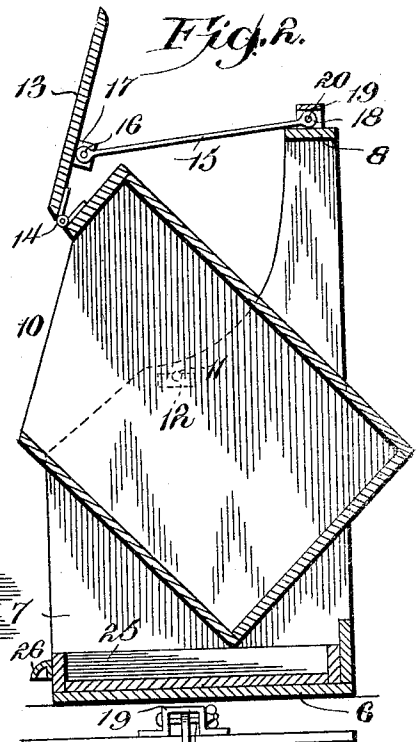


Fig. 3.

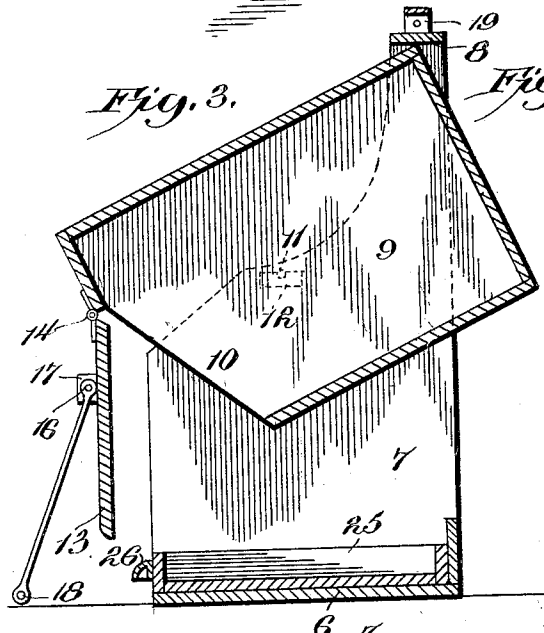


Fig. 4.

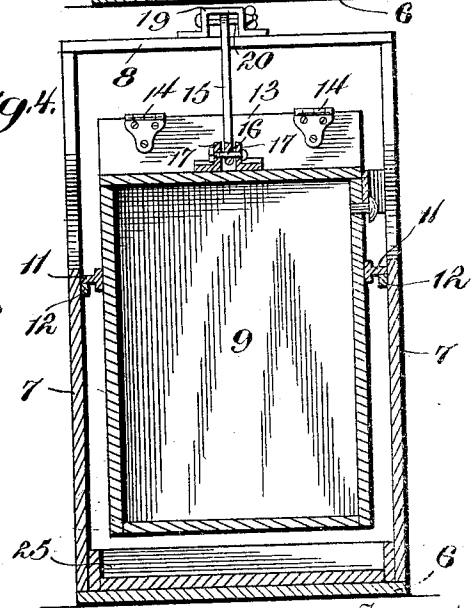
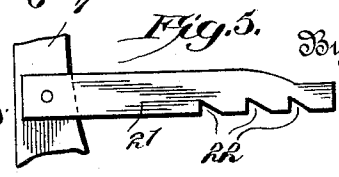


Fig. 5.



Witnesses
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UNITED STATES PATENT OFFICE.

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BIN.

No. 805,047. Specification of Letters Patent. Patented Nov. 21, 1905.

Application filed December 5, 1904. Serial No. 235,556.

To all whom it may concern:

Be it known that I, HENRY W. WATSON, a citizen of the United States, residing at Chattanooga, in the county of Hamilton and State of Tennessee, have invented a new and useful Bin, of which the following is a specification.

The present invention relates to bins for holding flour, meal, and other material in bulk, and is designed for domestic purposes or use in stores and similar places.

The object is to provide a simple structure of a novel nature that will close tightly to keep out rodents, vermin, dirt, and the like and can be emptied with ease and expedition, the material being received in a tray which may be removed, so that such material can be conveniently secured.

The preferred embodiment of the invention is illustrated in the accompanying drawings, wherein—

Figure 1 is a perspective view of the bin when in closed condition. Fig. 2 is a vertical sectional view through the same, but showing the bin opened. Fig. 3 is a view similar to Fig. 2, but showing said bin when inverted to empty the same. Fig. 4 is a vertical sectional view at right angles to Figs. 2 and 3, and Fig. 5 is a view showing the latch in elevation.

Similar reference-numerals designate corresponding parts in all the figures of the drawings.

In the embodiment illustrated a support is employed comprising a bottom 6 and spaced standards 7 rising therefrom, the lower portions of these standards constituting, in effect, side walls, the upper portions being reduced in width and being connected by a cross-bar 8. To and between said standards is journaled a bin 9, which may be of any form or size desired and is provided in its top with an open mouth 10, through which access is gained to the interior.

The means for pivotally supporting the bin preferably consist of oppositely-extending pintles 11, secured to the opposite side walls of said bin and turning in the seats of journal-blocks 12, secured to the inner sides of the standards 7. The mouth 10 of the bin is adapted to be closed by a cover 13, hinged, as shown at 14, to the rear top portion of said bin, said cover thus swinging in an upward direction upon its opening movement. Means are employed for effecting automatic movement of the cover. This means consists of a link 15, one end of which is pivoted, as shown at 16, between a pair of ears 17, secured upon the top 13. The other end of the link is provided with an eye 18, adapted to be received in a yoke 19, a pivot bolt or pin 20 passing through the yoke and through the eye, said bolt being detachable for the purposes hereinafter stated. In order to hold the bin in tilted position, a latch 21 is employed pivoted to one of the standards and extending transversely along one side of the bin. This latch is provided in its under side with seats 22 and has at its free end a thumb-piece 23. The seats are arranged to receive a pin 24, located beneath the latch and carried by the adjacent side wall of the bin.

For receiving the contents of the bin when the same is to be completely emptied a tray 25 is employed that fits between the standards 7 and slidably rests on the bottom 6, this tray being provided in its front end with a suitable handle 26, by means of which it may be removed from beneath the bin.

It will be apparent that when the bin is in upright position the cover will be closed, as shown in Fig. 1, and therefore rodents, insects, or dirt cannot enter the same. When, however, the bin is tilted, the link 15 will cause the cover to swing upwardly, and consequently when said bin reaches a position to be locked by the latch said cover will be fully open and the contents will be entirely accessible. This will be clear by reference to Fig. 2. When about all of the material has been removed from the bin and it becomes desirable or necessary to completely empty it, the link 15 is detached from the cross-bar 8, and therefore the bin can be inverted, as shown in Fig. 3. Thereupon the material still remaining will gravitate into the tray 25, which can be removed, the contents thus being secured.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a support, of a bin pivotally mounted on the support, a cover for the bin hinged to said bin, and a link pivotally connected to the support and to the bin, said link constituting means for swinging the cover upon the swinging movement of the bin, and said link and cover in themselves constituting means for limiting the swinging movement of the bin.

2. The combination with a support, of a bin pivotally mounted upon the support, a cover for the bin hinged to said bin, a link, and pivotal connections between the link and the support and bin, said link constituting means for swinging the cover upon the swinging movement of the bin, said link and cover constituting means for limiting the swinging movement of the bin and one of said pivotal connections being detachable to permit the release of the link and the further swinging movement of the bin.

3. The combination with a support comprising spaced standards and a cross-bar connecting the upper ends thereof, of a swinging bin pivoted to and between the standards, a cover for the bin hinged thereto, and a link pivoted to the upper side of the cover between its edges and to the cross-bar between its ends.

4. The combination with a support comprising a bottom, spaced standards rising therefrom, and a cross-bar connecting the upper ends of the standards, of a bin pivoted between its ends to and between the standards, a cover hinged to the bin, and a tray slidably mounted on the bottom between the standards and constituting a receiver for the contents of the bin when said bin is inverted.

5. The combination with a support comprising a bottom, standards rising therefrom, and a cross-bar connecting the upper portions of the standards, of a bin pivoted to and between the standards, a cover for the bin hinged thereto, a link, pivot devices for connecting the ends of the link respectively to the cross-bar and the upper side of the cover between the edges thereof, said cover and link constituting means for limiting the swinging movement of the bin, and a tray detachably located upon the bottom between the standards and beneath the bin, one of said pivoted devices being detachable to permit the release of the link and the inversion of the bin to permit its contents to gravitate into the tray.

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

HENRY W. WATSON.

Witnesses:

R. M. CLEVELAND,

JIM BEILER.