

A. K. GILLESPIE.
 ROLLING BIN.
 APPLICATION FILED AUG. 26, 1912.

1,056,166.

Patented Mar. 18, 1913.

Fig. 1.

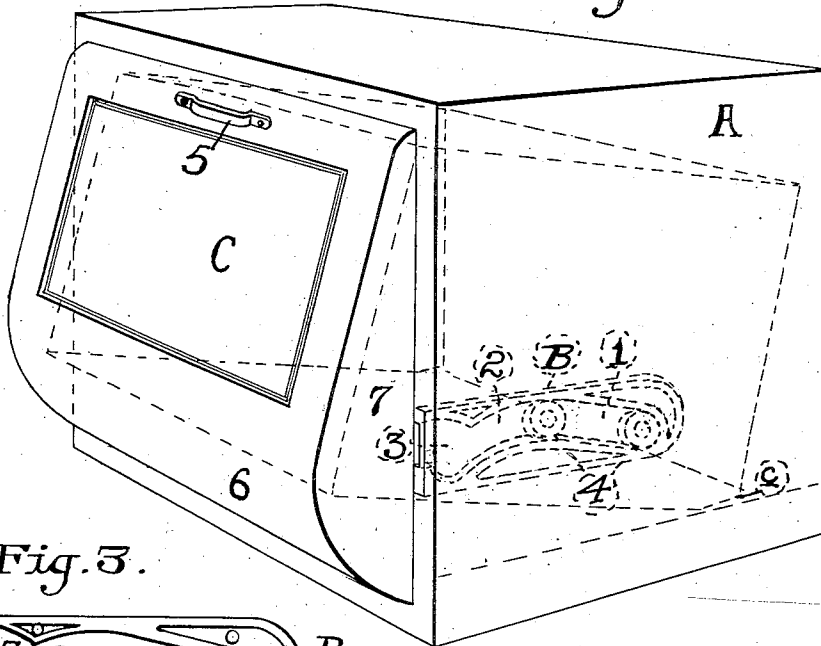


Fig. 3.

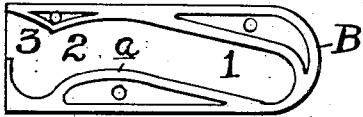


Fig 2

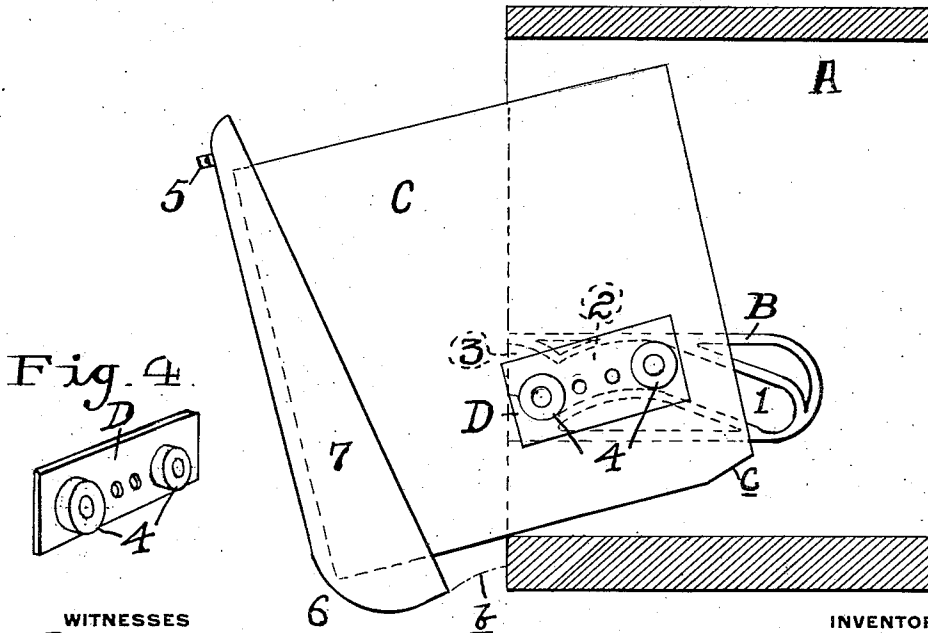


Fig. 4.

WITNESSES

R. H. Dilworth
Catherine McDonald

INVENTOR

Alan K. Gillespie,
by Edward A. Lawrence,
his Attorney.

UNITED STATES PATENT OFFICE.

ALAN K. GILLESPIE, OF KENOSHA, WISCONSIN, ASSIGNOR TO UNITED REFRIGERATOR AND ICE MACHINE COMPANY, OF KENOSHA, WISCONSIN, A CORPORATION OF MAINE.

ROLLING BIN.

1,056,166.

Specification of Letters Patent.

Patented Mar. 18, 1913.

Application filed August 26, 1912. Serial No. 717,008.

To all whom it may concern:

Be it known that I, ALAN K. GILLESPIE, a citizen of the United States, and residing in the city of Kenosha, in the county of Kenosha and State of Wisconsin, have invented or discovered new and useful Improvements in Rolling Bins, of which the following is a specification.

My invention consists in a new and improved rolling bin.

The object in view is the provision of a store-bin or other drawer or receptacle which may be easily opened and closed and which will maintain either position against accidental movement, and which, when open, will assume a position convenient for access to its contents.

My object is also to provide means whereby the bin may be readily dismounted from its compartment or casing, when desired.

I accomplish these objects by providing each side of the bin with a pair of rollers which engage with a substantially inverted, flattened V-shaped track sunk in the sides of the casing or compartment, said rollers engaging the rear legs of the tracks when the bin is closed, and the front rollers engaging the front legs of the track when the bin is open. The front ends of the tracks are open, extending to the front of the casing and are preferably formed as upwardly extending sharp curves or angles whereby an upward pull on the bin, when open, serves to dismount the same from the casing.

For the sake of clearness I have illustrated and described a single bin provided with a casing for its accommodation, but it will of course be understood that my invention is equally applicable to a plurality of bins mounted in individual compartments in the same casing, the means for mounting the individual bins being the subject of my improvement.

In the accompanying drawings, Figure 1 is a perspective of the bin and casing, the bin being shown closed and the rollers and track shown in dotted lines; Fig. 2 is a side elevation showing the bin open; Fig. 3 is a side elevation showing one of the track plates, the plate shown being that of the left hand wall of the casing, and Fig.

4 is a similar view showing one pair of rollers and their supporting plate.

The following is a detailed description of the drawings:

A is the casing, the inside surfaces of the side walls or partitions of which are provided with sunken tracks which are preferably provided by sinking into each of said walls a metal plate B upon the exposed surface of which is a sunken track of substantially inverted flattened V-shape composed of a rear leg 1 extending inwardly at a downward incline from the apex *a* of the track and a forward leg 2 extending outwardly and downwardly from said apex to a point near the front of said casing where it joins a sharp upward and outward curved portion 3 whose upper end extends to the front of the casing and forms the open end or mouth of the track whereby the bin may be mounted or dismounted, as desired.

C is the bin, preferably of rectangular interior, as shown in dotted lines in Fig. 1. Each side of said bin is provided with a pair of outwardly extending rollers 4—4, preferably mounted on a metal plate D set flush into the material of the bin. The rollers engage and travel in the sunken tracks in the sides of the casing A as indicated in dotted lines in Figs. 1 and 2.

When the bin is closed, as shown in Fig. 1, both rollers on each side of the bin occupy the rear leg 1 of the track, causing the bin to assume the rearwardly tilted position shown in Fig. 1, the weight of the bin and its contents thus serving to hold the bin closed against accidental opening.

To open the bin, the handle 5 is grasped and the bin drawn forward, the forward roller of each pair mounting over the apex *a* of its track and descending the legs 2 until it comes to rest in the juncture between the leg 2 and the curve 3, as shown in Fig. 2. The forward leg 2 is preferably somewhat shorter than the rear leg 1 so that the rear roller does not ride over the apex *a* but assumes substantially the position shown in Fig. 2. The bin, when open, assumes the forwardly tilted position shown in Fig. 2, thus preventing its accidental closing.

When it is desired to dismount the bin

from the casing, the handle 5 is grasped and the bin drawn upwardly, the rollers 4—4 passing up through the curves 3 at the front ends of the tracks, thus releasing the rollers 5 from the tracks and permitting the free removal of the bin. To remount the bin, said rollers are again inserted in the tracks through said curves 3.

When the bin is closed, as shown in Fig. 10 1, the bottom of the bin, owing to its tilted position, extends as a "swell-front" and is preferably finished with a curved bottom piece 6 which abuts against the lower edge of the casing when the bin is closed. Side 15 plates 7 are also provided whose rear edges abut against the vertical edges of the casing when the bin is closed, thus providing a neat and tight inclosure.

To prevent the bottom piece 6 and side 20 plates 7—7 from scraping along the front surfaces of the casing and marring the same, I prefer to upwardly bow or curve the legs 2 of the tracks, so that, in opening, the front of the bin will describe an arc shown in 25 dotted line at *b* in Fig. 2, thus preventing the scraping of the front of the casing.

To provide sufficient room for the rearward tilt of the bin when closed, I may bevel the rear bottom edge of the same as at *c*.

30 My bin in addition to being easy and satisfactory of operation, is simple, inexpensive and has no parts liable to become out of order or worn.

What I desire to claim is:—

35 1. In combination with a bin and a casing therefor, inverted V-shaped tracks in the sides of said casing and a pair of rollers mounted on each side of said bin engaging

said tracks, said tracks being provided with a portion extending upwardly to the front 40 of the casing, for the purpose described.

2. In combination with a bin and a casing therefor, inverted V-shaped tracks mounted on the side walls of the casing and a pair of rollers mounted on each side of the bin and 45 engaging said tracks, said rollers being so placed and spaced apart that when said bin is closed both rollers of a pair engage the rear leg of said track and when said bin is open the forward roller engages the front 50 leg of said track while the rear roller is in the rear of the apex of said track, for the purpose described.

3. In combination with a bin and a casing therefor, inverted V-shaped tracks in the 55 sides of said casing, the front leg of said tracks being bowed upwardly and being shorter than the rear leg of said tracks, and a pair of rollers mounted on each side of said bin engaging said tracks, for the pur- 60 pose described.

4. In combination with a bin and a casing therefor, inverted V-shaped tracks in the 65 sides of said casing, the front leg of said tracks being bowed upwardly and communicating with a portion extending upwardly to the front of the casing, and a pair of rollers mounted on each side of said bin engaging said tracks, for the purpose described.

Signed at Kenosha, Wis., this 22nd day of 70 August 1912.

ALAN K. GILLESPIE.

Witnesses:

GEO. W. TAYLOR,
ESTHER HELMS.