

C. E. COMBS.
CAN.

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1,062,440.

Patented May 20, 1913.

3 SHEETS-SHEET 1.

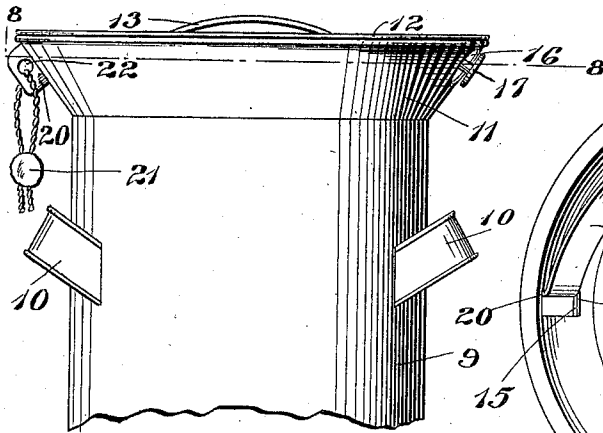


Fig. 1.

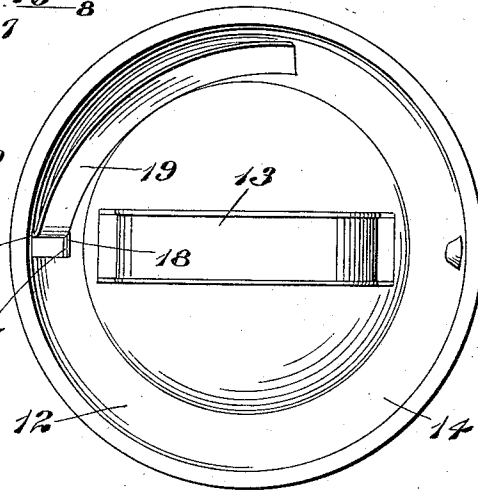


Fig. 2.

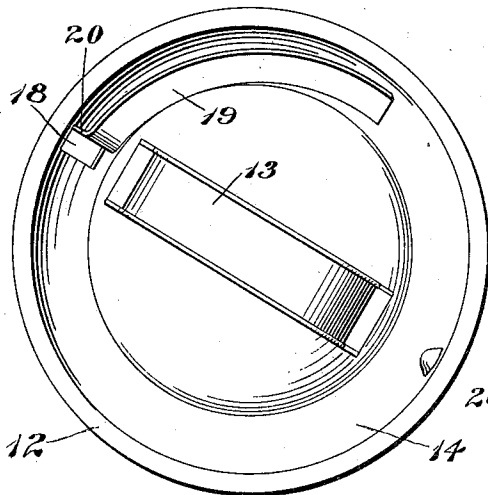


Fig. 3.

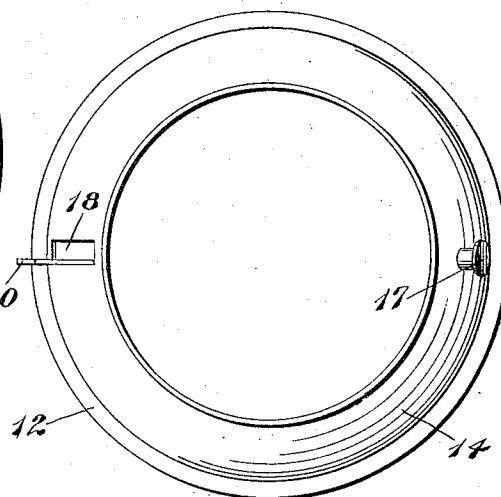


Fig. 4.

Witnesses,
G. W. P. R. C.
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2 SHEETS—SHEET 2.

1,062,440.

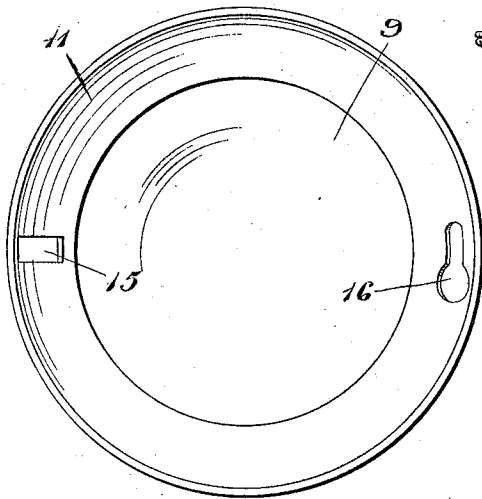


Fig. 5.

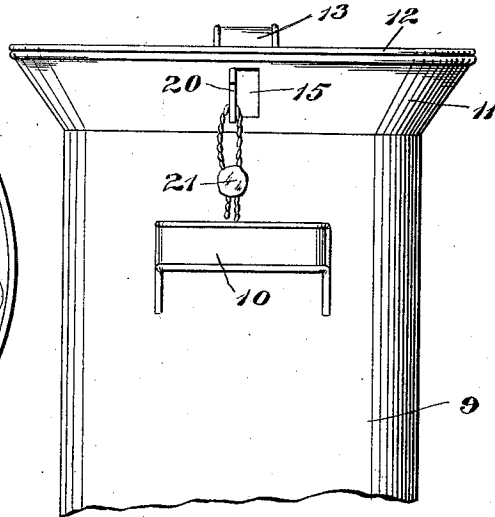


Fig. 6.

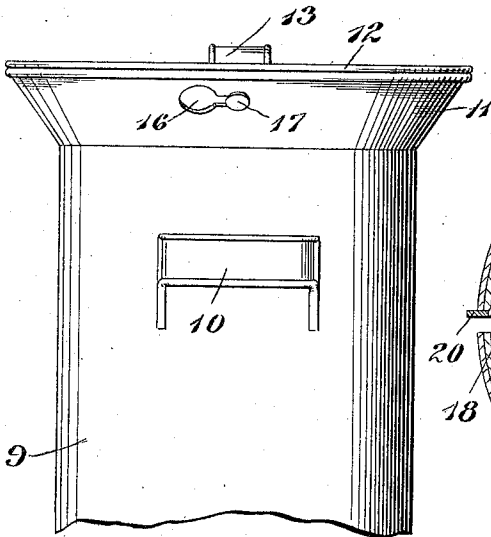


Fig. 7.

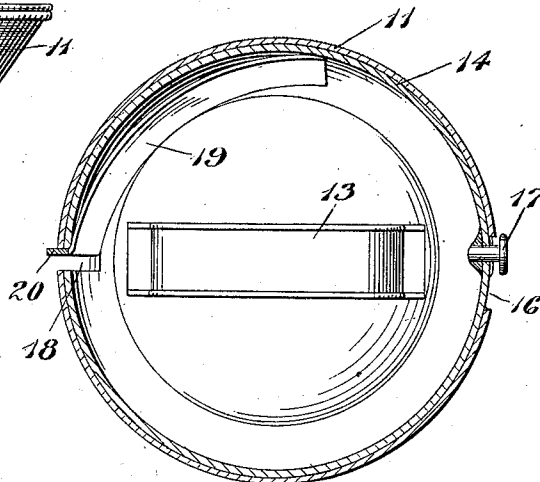


Fig. 8.

Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES E. COMBS, OF KANSAS CITY, MISSOURI.

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1,062,440.

Specification of Letters Patent.

Patented May 20, 1913.

Application filed October 15, 1912. Serial No. 725,921.

To all whom it may concern:

Be it known that I, CHARLES E. COMBS, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented new and useful Improvements in Cans, of which the following is a specification.

This invention relates to cans for the transportation of milk, cream and the like, and the principal object of the invention is to provide simple and improved means for locking and retaining the cover securely in position on the can while in transit.

A further object of the invention is to produce simple and improved locking and retaining means for the cover which will not interfere with the cover being easily positioned upon or removed from the can.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the claims may be resorted to when desired.

In the drawings—Figure 1 is a front view of the upper portion of a can constructed in accordance with the invention, with the cover in position and locked thereon. Fig. 2 is a top plan view of the same. Fig. 3 is a top plan view showing the lid twisted to one side preparatory to being removed. Fig. 4 is a bottom plan view of the lid detached. Fig. 5 is a top plan view of the can with the lid removed. Fig. 6 is a detail side view of the upper portion of the can with the lid in position and locked. Fig. 7 is a detail view of the upper portion of the can showing the side opposite to that shown in Fig. 6. Fig. 8 is a horizontal sectional view taken on the line 8—8 in Fig. 1.

Corresponding parts in the several figures are denoted by like characters of reference.

The milk can, the body of which is shown at 9, is provided with handles 10, and it has at its upper edge the customary flaring flange 11. The lid 12 has a handle 13 and a flaring flange 14 corresponding to that of the can

body. The flange 11 of the can body is provided at one side with a rectangular slot 15 and approximately at the diametrically opposite side with a keyhole slot 16. The flange 14 of the lid has on the underside thereof a headed stud or button 17 adapted to engage the keyhole slot 16, said flange being provided approximately diametrically opposite to the stud 17 with a rectangular slot 18. Secured upon the upper face of the flange 14 of the lid at a point intermediate the slot 18 and the point at which the stud 17 is secured is one end of a flat spring 19, said spring being curved to conform to the contour of the upper face of the flange 14, and said spring being provided at its free end with a lip 20 bent substantially at right angles thereto and projecting through the slot 18. A slot 18 through which the lip 20 at the free end of the spring 19 projects is so positioned with respect to the slot 15 in the flange 11 of the can body and with respect to the key hole slot 16 and the stud 17 that when the lid is placed in position on the can and the stud 17 engages the large end of the keyhole slot, the lip 20 will engage the upper face of the flange 11, said lip being thus forced in an upward direction, as shown in Fig. 3, the spring 19 obviously yielding, as shown. When the lid, having been thus adjusted, is turned slightly in one direction about its vertical axis, the headed stud 17 will move into engagement with the narrow end of the keyhole slot, while the lip 20 will be projected through the slot 15 in the top flange 11 of the can body. The lid or cover is thus secured against removal, and it may be locked by means of an ordinary seal 21 engaging an aperture 22 in the lip 20.

When the lid is to be detached from the can, the seal 21 is first removed, after which, by rocking the lid in the proper direction about its vertical axis, the stud 17 will move into registry with the large end of the keyhole slot 16. The pressure exerted against one side of the lip 20 by one side wall of the slot 15 will exert an upward strain against the spring 19, the tendency of which will be to withdraw the lip from the slot 15, causing the said lip to ride over the upper face of the flange 11 until the desired position of the lid is attained, after which the lid may be lifted in the usual manner.

As will be seen from the foregoing description taken in connection with the drawings hereto annexed, the improved device is

simple in construction and capable of being readily applied to milk and cream cans of ordinary construction without material change.

5 Having thus described the invention, what is claimed as new, is:—

1. A can body having a flaring flange provided with a keyhole slot and a rectangular slot, and a lid having a corresponding flaring flange, a headed stud on the underside of the lid flange to engage the keyhole slot of the body flange, and a flat spring secured on the lid flange and having a free end provided with a lip extending through said flange, said lip being positioned to engage the slot in the flange of the can body when the lid is adjusted with the headed stud in engagement with the narrow end of the keyhole slot.

2. A can body having a flaring flange provided with a keyhole slot and a rectangular slot, and a lid having a corresponding flaring flange, a headed stud on the underside of the lid flange to engage the keyhole slot of the body flange, and a flat spring secured

on the lid flange and having a free end provided with a lip extending through said flange, said lip being positioned to engage the slot in the flange of the can body when the lid is adjusted with the headed stud in engagement with the narrow end of the keyhole slot; said lip being apertured for the reception of a seal.

3. A can body and a can lid having corresponding flaring flanges, said flanges being provided with interengaging locking means including a headed stud on the lid flange, a spring secured on the lid flange and having a free end provided with a lip projecting through said flange, the body flange being provided with a keyhole slot and a rectangular slot to be engaged, respectively, by the headed stud and by the lip.

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

CHARLES E. COMBS.

Witnesses:

WALTER PROBST,
GEOFFREY W. KUNTZ.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."