

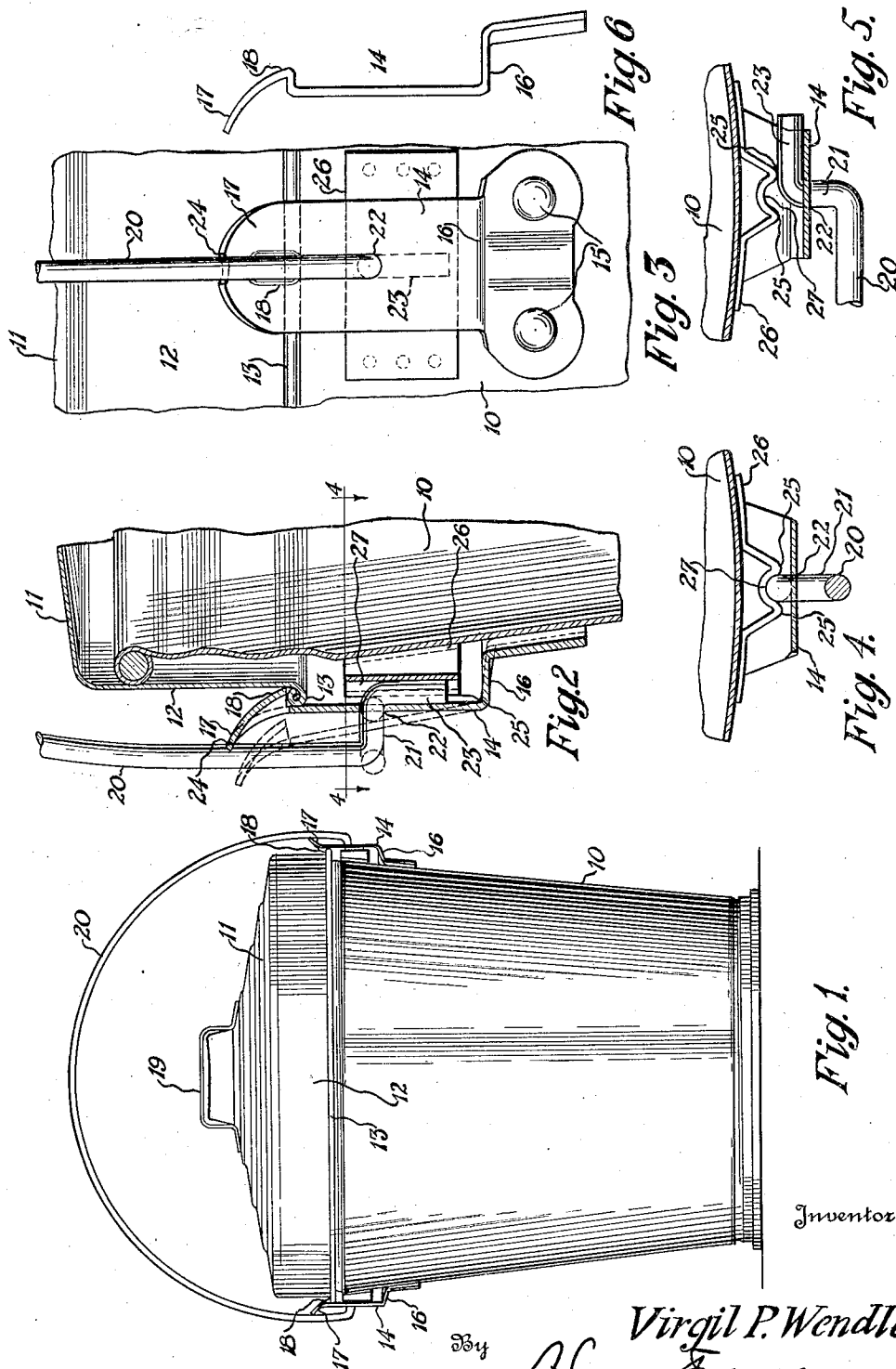
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COVER LOCK FOR PAILS

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UNITED STATES PATENT OFFICE

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COVER LOCK FOR PAILS

Application filed September 24, 1929. Serial No. 394,802.

The invention relates to means for locking covers upon pails, cans and the like and more particularly to a device of this kind especially adapted for use upon garbage cans, and the present application is a continuation in part of the common subject matter of my copending application Serial No. 334,997, filed January 25, 1929.

The object of the improvement is to provide a simple and efficient locking means upon the can for locking the cover thereon by raising the handle bail, in order to prevent the cover from being dislodged by dogs or other animals, and to provide automatic means for unlocking the cover when the handle bail is lowered.

The above and other objects may be attained by providing a spring ear at each side of the can, near the upper open end thereof, and forming a locking projection or tongue upon the ear for engagement with the usual bead around the lower end of the peripheral flange ordinarily formed upon covers of this character, the handle bail being arranged to be raised to engage said ears and force the projections over the bead upon the cover, means being provided adjacent to the ears to cooperate with the handle bail for automatically pulling the ears outward and releasing the projections from engagement with the cover bead when the handle bail is lowered.

An embodiment of the invention is illustrated in the accompanying drawing, in which Figure 1 is a side elevation of a garbage can or the like provided with the improved locking means for retaining the cover thereon;

Fig. 2, a fragmentary sectional view upon an enlarged scale showing the upper portion of the can and the improved cover locking means in position for locking the cover upon the can;

Fig. 3, a fragmentary elevation of the same;

Fig. 4, a horizontal section taken substantially on the line 4—4, Fig. 2;

Fig. 5, a similar view showing the handle bail in lowered position to move the ears outward and release the locking tongues from engagement with the cover bead; and

Fig. 6, a side elevation of a modified form of ear.

Similar numerals refer to similar parts throughout the drawing.

The can or pail 10 may be of any usual and well known construction and the cover 11 therefor may have the usual depending peripheral flange 12 terminating at its lower edge in the peripheral bead 13.

The improved cover locking device includes an ear 14 connected to each side of the can, near the upper open end thereof, as by rivets 15 or the like, and is preferably offset from the can as shown at 16.

Each of these ears is arranged to extend up above the normal position of the bead 13 when the cover is in place upon the can and is preferably outwardly curved at its upper end as shown at 17 and has the locking projection or tongue 18 thereon adapted to engage over the bead 13 of the cover to retain the same in position thereon. The cover may be provided with the usual handle 19 for lifting the same from the can.

The handle bail 20 may be carried by the ears 14, being preferably connected thereto below the locking tongues as by providing angular portions 21 located through apertures 22 in the ears, and terminating in the angular end portions 23.

The curved upper extremity of each ear may be provided with a rounded notch 24 to receive the handle bail when the same is in raised position, as illustrated in Figs. 1, 2 and 3, holding the handle bail in this position and forcing the ears inward, bringing the locking projections into locking engagement with the cover bead 13.

With the handle bail held in this position, the ears are thus locked against outward movement and the cover cannot be removed until the handle bail is lowered and the ears sprung out of engagement with the cover bead.

In order to automatically spring the ears outward and release the locking projections thereof from locking engagement with the cover bead by the lowering of the handle bail, a pair of spaced corrugations or ribs 25 are located between the body of the pail and each

ear 14 for cooperation with the angular ends 23 of the handle bail.

These corrugations may be formed upon a sheet metal strip 26 spot welded or otherwise connected to the side of the pail, as illustrated in the drawings, or if desired, may be stamped in the body of the pail.

The ribs or corrugations 25 have a recess 27 located between the same adapted to receive the angular portion 23 of the bail when the same is in raised position, as shown in Figs. 1, 2, 3 and 4.

When the bail is lowered, as shown in Fig. 5, the angular portions 23 thereof will ride out of the recesses 27 and up onto one or the other of the corrugations 25, forcing the ears 14 outward, as shown in said figure, and also in broken lines in Fig. 2, pulling the locking projections 18 out of engagement with the cover bead and permitting the cover to be removed from the can.

From the above it will be seen that a positive locking and unlocking device is provided, operable by the movement of the handle bail to raised and lowered positions respectively. The device may thus be easily operated with one hand leaving the other hand free to hold a sink strainer or other receptacle in which garbage or the like may be carried.

I claim:

1. In combination with a receptacle, a cover therefor provided with a peripheral bead, an ear at each side of the receptacle near the upper end thereof, a locking projection upon each ear for locking engagement with the bead upon the cover and a handle bail carried by said ears, each ear having a notch for engagement with the handle bail to hold the locking projections in locking position.

2. In combination with a receptacle, a cover therefor provided with a peripheral bead, an ear carried upon the receptacle near the upper end thereof, a locking projection formed upon the ear for locking engagement with the bead upon the cover, a bail associated with the receptacle, and means upon the receptacle and cooperating with the bail for disengaging the locking projection from the bead.

3. In combination with a receptacle, a cover therefor provided with a peripheral bead, a spring ear carried upon the receptacle near the upper end thereof, a locking projection formed upon the ear for locking engagement with the bead upon the cover, a bail associated with the receptacle, and means upon the receptacle and cooperating with the bail for disengaging the locking projection from the bead.

4. In combination with a receptacle, a cover therefor provided with a peripheral bead, an ear carried upon the receptacle near the upper end thereof and terminating in an outwardly curved upper end, a locking projec-

tion formed upon the ear for locking engagement with the bead upon the cover, a bail associated with the receptacle, and means upon the receptacle and cooperating with the bail for disengaging the locking projection from the bead.

5. In combination with a receptacle, a cover therefor provided with a peripheral bead, an ear at each side of the receptacle near the upper end thereof, a locking projection upon each ear for locking engagement with the bead upon the cover, a bail associated with the receptacle, and means upon the receptacle and cooperating with the bail for simultaneously releasing both locking projections from engagement with the bead.

6. In combination with a receptacle, a cover therefor provided with a peripheral bead, an ear at each side of the receptacle near the upper end thereof, a locking projection upon each ear for locking engagement with the bead upon the cover, a handle bail carried by the ears and means upon the receptacle and cooperating with the bail for releasing both locking projections from engagement with the bead when the handle bail is lowered.

7. In combination with a receptacle, a cover therefor provided with a peripheral bead, an ear at each side of the receptacle near the upper end thereof, a locking projection upon each ear for locking engagement with the bead upon the cover, a handle bail carried by the ears and ribs upon the receptacle for engagement with the handle bail for releasing both locking projections from engagement with the bead when the handle bail is lowered.

8. In combination with a receptacle, a cover therefor provided with a peripheral bead, an ear carried upon the receptacle near the upper end thereof, a locking projection formed upon the ear for locking engagement with the bead upon the cover, and a handle bail associated with the receptacle adapted to move the locking projection into locking engagement with the bead when the bail is raised and to move the projection out of locking engagement with the bead when the bail is lowered.

9. In combination with a receptacle, a cover therefor provided with a peripheral bead, an ear carried upon the receptacle near the upper end thereof, a locking projection formed upon the ear for locking engagement with the bead upon the cover, a handle bail associated with the receptacle adapted to engage the ear and move the locking projection into locking engagement with the bead when the bail is raised and means cooperating with the handle bail for moving the projection out of engagement with the bead when the handle is lowered.

10. In combination with a receptacle, a cover therefor provided with a peripheral bead, an ear carried upon the receptacle near

the upper end thereof, a locking projection formed upon the ear for locking engagement with the bead upon the cover, a handle bail associated with the receptacle adapted to engage the ear and move the locking projection into locking engagement with the bead when the bail is raised and a rib cooperating with the handle bail for moving the projection out of engagement with the bead when the handle is lowered.

11. In combination with a receptacle, a cover therefor provided with a peripheral bead, an ear carried upon the receptacle near the upper end thereof, a locking projection formed upon the ear for locking engagement with the bead upon the cover, a handle bail associated with the receptacle adapted to engage the ear and move the locking projection into locking engagement with the bead when the bail is raised and a corrugated strip cooperating with the handle bail for moving the projection out of engagement with the bead when the handle is lowered.

In testimony that I claim the above, I have hereunto subscribed my name.

VIRGIL P. WENDLE.

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