Oct. 19, 1937. E. FRAYSUR 2,096,098

SELF GRIPPING FASTENER FOR CREAM CAN TOPS

Filed May 26, 1936

Fig. 1.

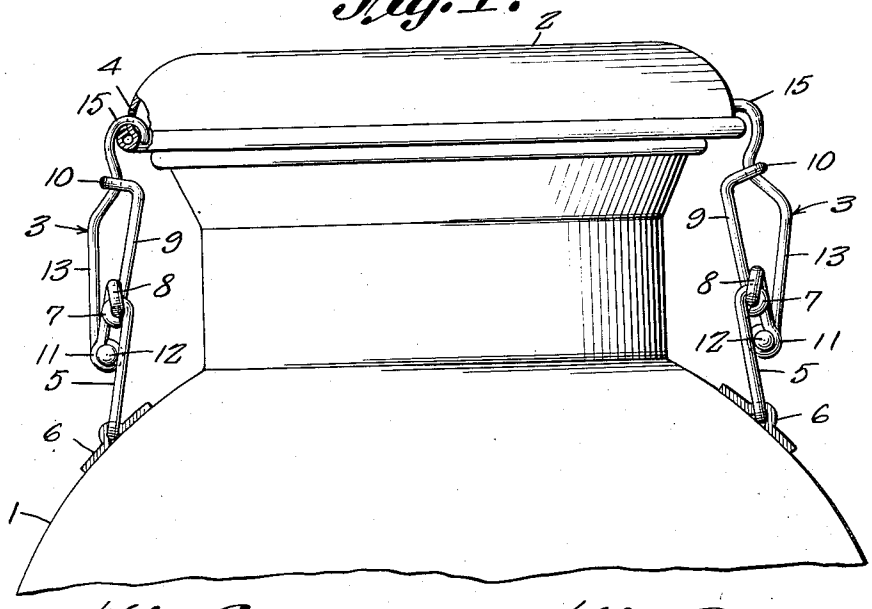


Fig. 2.

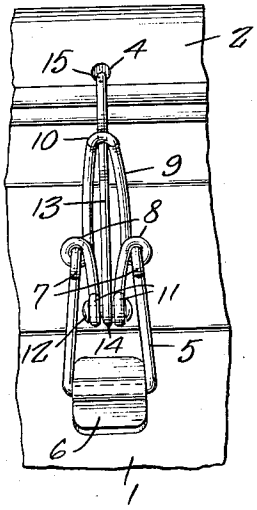
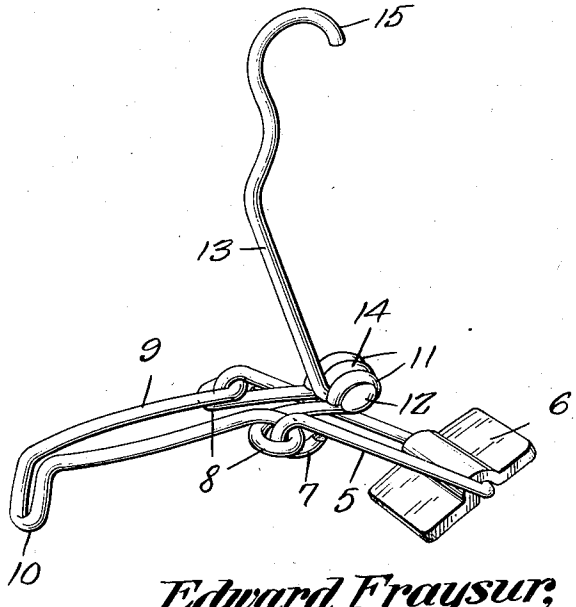


Fig. 3.



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WITNESS

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SELF-GRIPPING FASTENER FOR CREAM CAN TOPS

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3 Claims. (Cl. 220—55)

This invention relates to fasteners especially adapted for cream or milk cans and has for the primary object the provision of a simple and inexpensive device of this character which may be easily and quickly actuated to either release or efficiently secure a cover of a can so that no danger of the cover becoming displaced either by internal or external forces will be had and which in no way will interfere with the handling or stacking of one can upon the other and which will be sanitary to meet health regulations.

With these and other objects in view, this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which

Figure 1 is a fragmentary side elevation, partly in section, showing a cream or milk can equipped with fasteners constructed in accordance with my invention.

Figure 2 is a front elevation showing one of the fasteners.

Figure 3 is a perspective view illustrating one of the fasteners in an open position and removed from the can.

Referring in detail to the drawing, the numeral 1 indicates a conventional type of cream or milk can having a removable cover 2. In order to secure the cover 2 against accidental displacement on the can a pair of fasteners 3 are mounted on the can and brought to engage openings 4 formed in the cover. It is preferable that the fasteners be oppositely arranged on the can and as both fasteners are similarly constructed reference to one is thought sufficient.

A substantially U-shaped hinge element 5 is secured to the can 1 by a strap 6, the latter being riveted, welded or otherwise secured to the can. The ends of the element 5 are bent to form eyes 7 and said eyes interlock with eyes 8 formed on an actuating element 9. The actuating element is constructed from a single length of metal bent upon itself to provide parallel portions each portion being bent to form the eye 8. The actuating element has one end offset, as shown at 10, while the opposite end terminates in eyes 11 to receive a pivot pin 12. A retaining element 13 has an eye 14 which receives the pivot element 12 and is located between the eyes 11. The free end of the retaining element 13 is bent to form a hook 15 adapted to engage in the opening 4 of the cover.

The length of the fastener 3 may be increased and decreased by the pivotal movement of the actuating element 9. The actuating element 9 when swung away from the can increases the length of the fastener so that the hook 15 may be moved into or out of the openings 4 of the cover. To shorten the fastener the actuating element 9 is swung in the direction of the can so that the offset portion 10 straddles the retaining element, the latter having an offset 16 in which the offset end 10 of the actuating element moves. The offset end 10 of the actuating element 9 when received in the offset 16 of the retaining element positions the pivot of the latter off center consequently retaining the actuating element in a position to shorten the fastener to the maximum and thereby retain the cover firmly upon the can.

A can equipped with fasteners in accordance with the foregoing will permit the securing of the cover against accidental displacement either by internal or external forces and even when the actuating element is swung into cover releasing position, the latter will be prevented from being forced entirely off of the can by internal forces.

Having described the invention, I claim:

1. A fastener comprising a substantially U-shaped hinge element hinged to a can and including eyes, an actuating element including eyes passing through the eyes of the hinge element, and a retaining element hinged to one end of the actuating element and bent to form a hook to engage in an opening of a cover.

2. A fastener comprising a substantially U-shaped hinge element hinged to a can and including eyes, an actuating element including eyes passing through the eyes of the hinge element, a retaining element hinged to one end of the actuating element and bent to form a hook to engage in an opening of a cover, said actuating element having its other end bent angularly and including connected spaced portions adapted to straddle the retaining element when positioned to secure the cover to the can.

3. A fastener comprising a substantially U-shaped hinge element hinged to a can and including eyes, an actuating element including eyes passing through the eyes of the hinge element, a retaining element hinged to one end of the actuating element and bent to form a hook to engage in an opening of a cover, said actuating element having its other end bent angularly and including connected spaced portions adapted to straddle the retaining element when positioned to secure the cover to the can, said retaining element being offset to be engaged by the angularly related end of the actuating element.

EDWARD FRAYSUR.