

Sept. 9, 1924.

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T. B. SMITH, JR
MILK CLOSURE FASTENER
Filed Aug. 25, 1923

Fig. 1.

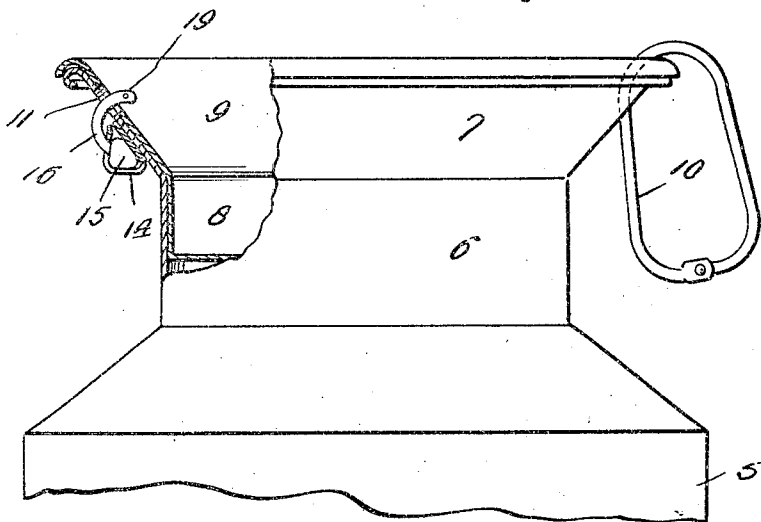
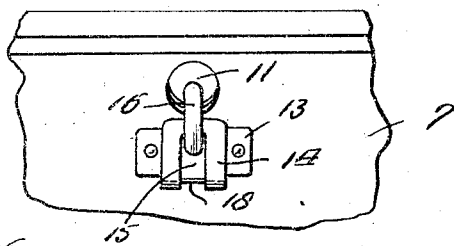
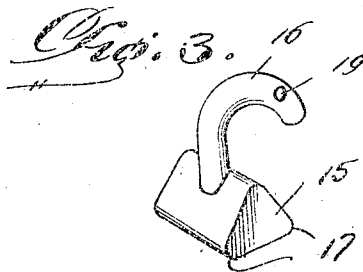
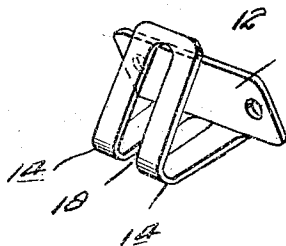


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

THOMAS B. SMITH, JR., OF POCATELLO, IDAHO.

MILK-CLOSURE FASTENER.

Application filed August 25, 1923. Serial No. 659,252.

To all whom it may concern:

Be it known that I, THOMAS B. SMITH, Jr., a citizen of the United States, residing at Pocatello, in the county of Bannock and State of Idaho, have invented certain new and useful Improvements in Milk-Closure Fasteners, of which the following is a specification.

This invention relates to certain new and useful improvements in fasteners for the closures of milk cans and is adapted to prevent accidental displacement of the closures from the can during shipment so that the milk will not be spilt and thus lost when the cans are subjected to jolts and jars during handling of the same or during transit.

The primary object of the invention is to provide a device of the above kind by means of which the closure is effectively held in place and which may be conveniently and easily released by authorized persons when desired.

Another object of the invention is to provide a closure fastener of the above kind which embraces the desired qualities of simplicity and durability of construction and which is characterized by a swinging closure fastening arm which is of such form and so mounted as to provide for yieldingly receiving the arms in either its locking or released position.

Other objects will appear as the nature of the invention is better understood and the same consists in the novel form, combination and arrangement of parts, hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing, wherein like reference characters indicate corresponding parts throughout the several views:

Figure 1 is a view, partly in side elevation and partly in section, of the upper portion of a milk can and its closure, provided with a fastening device constructed in accordance with the present invention, the fastening device being shown in side elevation.

Figure 2 is a fragmentary front elevational view of the device.

Figure 3 is a perspective view of the closure fastening arm and pivot, and

Figure 4 is a perspective view of the mounting bracket or clasp for the fastening arm.

Referring more in detail to the drawing, 5 indicates an ordinary milk can having a cylindrical neck 6 and a flared mouth 7, the

usual cover being provided for the can and embodying the lower cylindrical portion 8 adapted to be slidably fitted into the neck 6 and a flared upper portion 9 adapted for seating reception upon the inner surface of the flared mouth 7. The flared portions of the can and cover are provided with aligned openings in which a relatively large ring or link 10 is secured, which ring allows the cover to be removed but prevents separation of the cover from the can so as to guard against its becoming lost.

In accordance with the present invention, the flared portions of the can and the cover are provided with aligned openings as at 11 at a point opposite the ring 10, and a mounting plate or clasp 12 is attached to the mouth of the can beneath these openings as illustrated in Figures 1 and 2. The mounting or clasp 12 consists of a piece of sheet metal which is bent to provide a base portion 13 adapted to be fastened to the can, and a V-shaped resilient tongue 14 extending from the lower end of the plate 13 and terminating adjacent the upper edge thereof. A triangular space is thus provided in the clasp adapted for snug reception of a triangular pintle 15 which carries a curved ratchet clasp arm 16, and it will be seen that when the pintle 15 is positioned as shown in Figure 1, the arm 16 will be disposed through the openings 11 for effectively holding the covers of the can against accidental displacement from the can.

The corners of the pintles are preferably rounded, as at 17, and the clasp tongue 14 is provided with a longitudinal slot 18 through which the arm 16 projects, the slot 18 being sufficiently long to allow the arm 16 to swing downwardly out of the openings 11 for permitting the intentional removal of the can closure. As the pintle 15 is of angular form and snugly held by the clasp 12, it is apparent that the arm 16 is resiliently retained in either its locking or unlocked position, while the tongue 14 readily yields for permitting turning of the pin 15 when it is desired to lock or unlock the cover. It will, therefore, be clear that the resilient tongue will hold the triangular member 15 in predetermined set position by engagement with the flat faces of the member, and at the same time permitting the relative rotation of the member in the tongue for changing the set position thereof.

The flared end of the arm 16 is provided with

a transverse opening 19 through which may be positioned a suitable seal, padlock, shackle or the like for preventing opening of the can by an unauthorized person.

5 From the foregoing description, it will be seen that I have provided a simple, durable and efficient form of fastening device for can closures which may be readily applied to cans now in use, with very little added expense and expenditure of time.

10 Minor changes may be made without departing from the spirit and scope of the invention as claimed.

What I claim as new is:

15 1. In combination with a milk can having a cylindrical neck provided with a flared mouth, and a cover for said can comprising a cylindrical lower portion adapted to be slidably fitted into the neck and a flared upper portion adapted to contact the inner surface of the flared mouth of the can, and wherein the flared portions of the can and cover are provided with aligned openings, an angular clasp rigidly attached to the outer surface of the flared mouth of said can beneath said openings, an angular pintle snugly embraced by said clasp for pivotally mounting the pintle for swinging movement, and a rigid curved arm projecting from the pintle and adapted to move into and out of said opening.

20 2. In combination with a milk can having a cylindrical neck provided with a flared mouth, and a cover for said can comprising a cylindrical lower portion adapted to be slidably fitted into the neck and a flared upper portion adapted to contact the inner surface of the flared mouth of the can, and wherein the flared portions of the can and cover are provided with aligned openings, an angular clasp rigidly attached to the outer

surface of the flared mouth of said can beneath said openings, an angular pintle snugly embraced by said clasp for pivotally mounting the pintle for swinging movement, and a rigid curved arm projecting from the pintle and adapted to move into and out of said opening, said clasp comprising a resilient tongue having a longitudinal slot in which the arm is movable, and means for facilitating locking of the arm in a position wherein the same projects inwardly through said opening.

3. In combination with a milk can having a cylindrical neck provided with a flared mouth, and a cover for said can comprising a cylindrical lower portion adapted to be slidably fitted into the neck and a flared upper portion adapted to contact the inner surface of the flared mouth of the can, and wherein the flared portions of the can and cover are provided with aligned openings, an angular clasp rigidly attached to the outer surface of the flared mouth of said can beneath said openings, an angular pintle snugly embraced by said clasp for pivotally mounting the pintle for swinging movement, a curved rigid arm projecting from the pintle and adapted to move into and out of said opening, said clasp comprising a resilient tongue having a longitudinal slot in which the arm is movable, and means for facilitating locking of the arm in a position wherein the same projects inwardly through said opening, said pintle being of triangular form in end elevation whereby the same is resiliently held by the clasp in either position with the arm extending through the opening or disposed outwardly of said openings.

In testimony whereof I affix my signature.

THOMAS B. SMITH, JR.