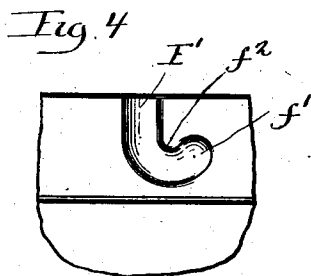
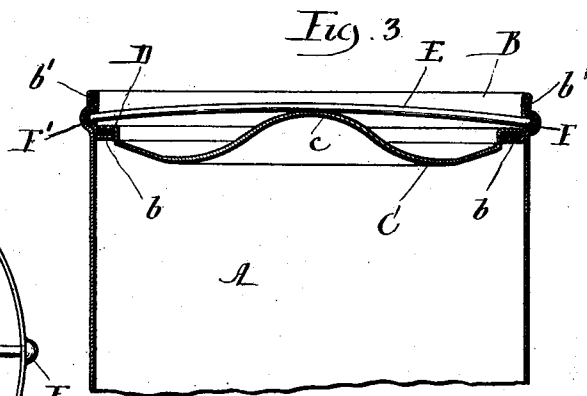
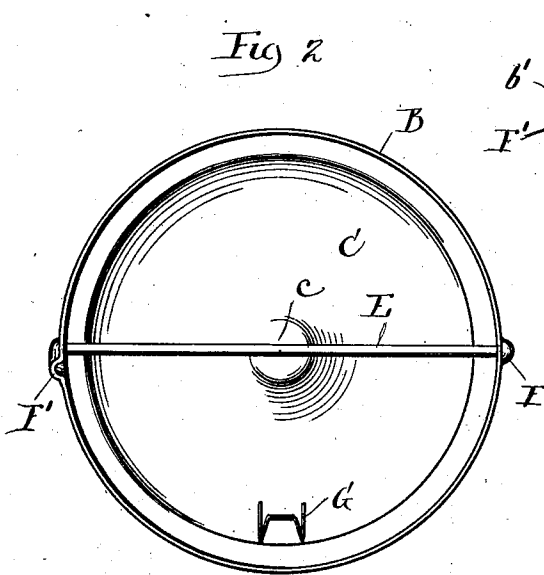
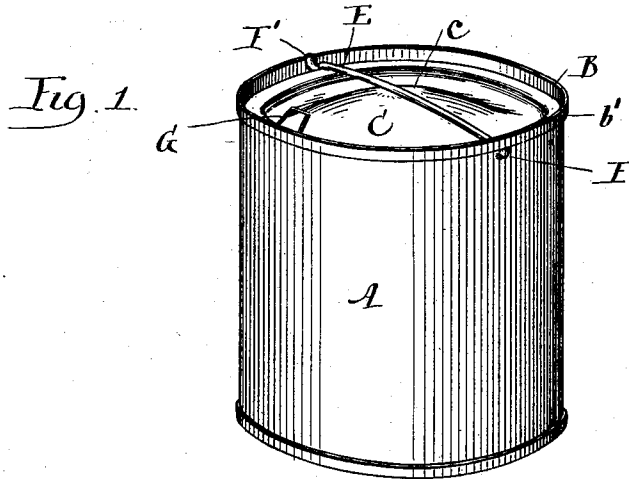


A. B. McNAIRY.
CAN OR LIKE CLOSURE.
(Application filed Aug. 31, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

AMOS B. MCNAIRY, OF CLEVELAND, OHIO.

CAN OR LIKE CLOSURE.

SPECIFICATION forming part of Letters Patent No. 699,891, dated May 13, 1902.

Application filed August 31, 1901. Serial No. 73,972. (No model.)

To all whom it may concern:

Be it known that I, AMOS B. MCNAIRY, a resident of the city of Cleveland, in the county of Cuyahoga, State of Ohio, have invented certain new and useful Improvements in Cans or Like Closures, of which the following is a full, clear, and exact description.

This invention has for its object to provide an improved construction of can or like closure, and more particularly does it relate to the improvement of that class of cans which are designed for containing paints or like material, an example of this class of cans being illustrated in Letters Patent No. 609,239, granted to me August 16, 1898.

The object of the invention is to provide a simple and effective means for closing the cover of the can or like package in such way that the contents will be securely retained until it is desired to open the can, when such opening of the can can be effected without the use of a can-opener, knife, or other like instrument.

The invention consists in the features of improvement hereinafter described, illustrated in the accompanying drawings, and more particularly defined in the claims at the end of this specification.

Figure 1 is a perspective view of a can embodying my invention. Fig. 2 is a plan view. Fig. 3 is a view in vertical cross-section through the upper portion of the can. Fig. 4 is an enlarged detail view in side elevation, showing the groove for the locking-bar at one side of the can.

As shown, the body A of the can is provided adjacent its top with an interiorly-extending shoulder or ledge *b*, that is preferably formed in piece with the top ring B, that sets within the interior of the can and by solder or the like is firmly secured thereto, the upper edge of the ring B being formed with a reverted flange *b'*, that is folded over and covers the upper edge of the can-body A. The ledge or shoulder *b* serves as a support for the can-cover C, a packing ring or gasket D being preferably interposed between the cover and the ledge *b*. The cover C is provided with a raised portion *c*, preferably at its center, against which bears a locking-bar E, that serves to securely retain the cover in position

until the can is to be opened. Near the top of the can-body A and above the supporting ledge or shoulder *b* are seats or offsets F and F' for engaging the ends of the locking-bar E. In the preferred embodiment of the invention these seats are formed by swaging or stamping outward portions of the metal ring B and of the upper part of the can-body, so that the ends of the locking-bar E when within the grooves or offsets thus formed shall be retained against accidental displacement. Preferably one of the offsets F is a simple concavo-convex seat adapted to receive the corresponding end of the locking-bar E, while the other groove or offset F' is formed as an open-ended seat having an angular or offset portion *f'*, adapted to retain the corresponding end of the locking-bar E against danger of accidental displacement. The groove F' being open at its end will admit the corresponding end of the locking-bar E after the opposite end of the bar has been placed within the offset F, and by pressing downward upon the bar it can be forced along the groove F' and moved slightly in lateral direction until such end of the bar E enters the angular or offset portion *f'* of the seat F', where it will be securely retained against accidental displacement, the shoulder *f*² of metal serving to prevent the accidental reverse movement of the locking-bar E. This bar E is preferably of iron or steel wire having sufficient elasticity to cause it to securely retain the can-cover C in firm bearing against packing ring or gasket D and at the same time prevent the end of the bar that is within the groove F' from slipping therefrom after it has been moved into the offset portion *f'* of such groove.

When the can has been filled and the cover C placed in position upon the packing-ring D, one end of the locking-bar E will be set within the seat F, after which the opposite end of the wire E will be forced downward along the groove F' and moved beneath the shoulder *f*² into the offset portion *f'* of such groove. When the can is to be opened, it is only necessary to free the end of the locking-bar from the seat *f'*, after which the locking-bar can be removed and the cover C can be withdrawn. Preferably the cover C is provided with a metal loop G adjacent one side, and if the

cover C is found to stick tightly the end of the removable locking-bar E can be inserted beneath the loop in order to pry off the cover.

My present invention affords a most simple, cheap, and effective means for securely retaining the covers of cans or like closures in position. One advantage of the construction is that the locking-bar does not extend above the top of the can-body, and consequently the cans can be evenly and firmly packed one above the other for transportation or storage. So, also, the grooves by engaging the ends of the locking-bar serve to guard it against longitudinal movement, while by providing the groove for one end of the locking-bar with an offset portion all danger of the accidental displacement of the locking-bar is avoided.

It is manifest that without departure from the spirit of the invention a seat or depression, like F', might be formed for receiving each end of the locking-bar, although I do not regard this as advisable.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A can or like closure having near its top an interior ledge or shoulder and a raised portion above said ledge or shoulder, a cover setting within said raised portion and supported by said ledge, a bar extending across said cover to lock it in position, said raised portion of the can being formed upon its interior at one side with a seat for one end of said locking-bar and at its opposite side with a groove having an angular or offset portion to receive and retain the corresponding end of the locking-bar.

2. A can or like closure having upon its interior at one side of its top a groove open at one end to admit a locking-bar and formed with an angular or offset portion to hold said bar in locked position, the opposite side of the can-top being provided with means for engaging the other end of said locking-bar, a cover for the can and a locking-bar extending over said cover and engaging the top of the can.

3. A can or like closure having near its top an interior ledge or shoulder and a raised portion above said ledge or shoulder, said raised portion being provided within its interior with seats or depressions to receive the ends of a locking-bar, one of said seats or depressions being offset as at *f* to form a shoulder *f*² for holding the bar in locked position, a cover setting within said raised portion and supported by said ledge and a locking-bar extending across said cover and having its ends within said seats or depressions.

4. A can or like closure having within its upper portion a metal ring extending over the top of the can-body and provided at a distance below said top with an inwardly-extending ledge or shoulder, said ring and said can-body being formed above said ledge or shoulder with seats or depressions to receive the ends of a locking-bar, one of said seats being formed with an offset portion to retain the locking-bar in position, a cover supported by said ledge or shoulder and a bar extending across said cover and having its ends within said seats or depressions.

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Witnesses:

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