

*Patented Dec. 13. 1870.*

This technical drawing shows a side view of a door assembly. The door is composed of a frame and a panel. The frame is shown in cross-section with diagonal hatching. The panel is divided into a grid of rectangular sections. A handle, labeled 'a', is mounted on the right side of the panel. A lock mechanism, labeled 'b', is mounted on the top edge of the door. The lock mechanism includes a bolt, labeled 'c', which extends into the frame. The bolt is shown in a retracted position. The drawing is labeled with various letters: 'a' for the handle, 'b' for the lock mechanism, 'c' for the bolt, 'd' for the bottom frame, 'e' for the top frame, 'f' for the side frame, 'g' for the top panel, 'h' for the bottom panel, 'i' for the left panel, 'j' for the right panel, 'k' for the top edge, 'l' for the bottom edge, 'm' for the left edge, and 'n' for the right edge.

A detailed technical drawing of a lock mechanism in plan view. The central component is a horizontal bolt with a circular head on the left and a threaded end on the right. A curved spring is attached to the bolt head. A keyhole is located on the right side of the bolt. The entire mechanism is mounted on a circular base. Various parts are labeled with letters: 'a' for the bolt head, 'b' for the spring, 'c' for the keyhole, 'd' for the bolt body, 'e' for the mounting plate, 'f' for the spring anchor, 'g' for the keyhole plug, 'h' for the keyhole cover, 'i' for the bolt end, 'j' for the spring anchor, 'k' for the keyhole plug, 'l' for the keyhole cover, 'm' for the bolt end, 'n' for the spring anchor, 'o' for the keyhole plug, and 'p' for the keyhole cover.

*His Attorneys*

# United States Patent Office.

LEWIS MORRIS, OF HAVRE DE GRACE, ASSIGNOR TO HIMSELF AND GEORGE W. BAKER, OF ABERDEEN, MARYLAND.

Letters Patent No. 110,152, dated December 13, 1870.

## IMPROVEMENT IN MILK-CARRIERS.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, LEWIS MORRIS, of Havre De Grace, in the county of Harford and State of Maryland, have invented a new and improved Milk-Carrier; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is an elevation, partly sectional, and

Figure 2 is a plan view.

This invention relates to improvements in cans for transporting milk, and has for its object to provide a reliable and conveniently-applicable fastening device for the covers of such vessels, or others devoted to analogous uses, and also to furnish a can which will be less liable to be injured, and better adapted for preserving milk from deterioration from air or heat than those heretofore known or used.

In the drawing—

Figure 1 shows a can, *a*, constructed of wood or other non-conductor of heat, having a wooden cover, *b*, and a wooden bottom, *c*, made double, so as to add strength, a non-conducting material being chosen in order to prevent the milk contained in the can from becoming heated.

This can is lined throughout with tin, zinc, or other metal, *d*, the function of which is to prevent the can from absorbing milk, and to present a surface that may be easily cleansed.

A space, *e*, may be left between the lining and the can, in order to increase the non-conduction of the latter.

In building the can the metal lining is put in from the larger end, and then the wooden bottoms inserted.

A rubber ring, *i* is placed between the cover and top of the can for the purpose of forming a packing to exclude air and retain milk when the cover is screwed tightly down.

Ears *f f* are secured to the outside of the can, and links *h h* jointed to the ears in such manner that the links may be turned down out of the way when not wanted.

A bar, *k*, is joined to the cover by a link, *l*, connected at one end with a staple, *m*, secured in the cover, and at its other extremity inclosing a screw-bolt, *n*, which occupies a threaded orifice at the mid-

dle of the bar *k*. The link may be connected directly with the bar *k*.

The link *l* prevents the bar *k* from falling off from the cover, and getting lost.

In order to force the cover tightly upon the can the bar *k* is placed in the links *h*, the bar having transverse grooves which fit under the upper rails of the links *h*, and the screw-bolt *n* turned downward.

The point of the screw-bolt is received on a metal plate, *o*, which is attached to the upper side of the cover.

The links *h* prevent the bar *k* from yielding upward, and, consequently, the cover is forced downward by the screw.

In order to lock or seal the screw, I provide a standard, *r*, which, in this instance, is connected with the link *l*, but which may be secured at its lower end directly to the cover, or to the bar *k*, or in any other position which admits of its being placed by the side of the screw-bolt *n*.

In the upper part of the standard *r* is an orifice, *s*, fig. 1, through which, and a similar orifice, *t*, in the upper part of the screw-bolt, the shackle *c* of the padlock *u* may be passed.

When the shackle is locked the bolt *n* is securely fastened, and the can is in a condition to be transported any distance without danger of losing its contents.

Instead of a lock the standard and screw-bolt may be connected by sealing.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The arrangement, with the can-body *a* and cover *b*, of the links *h*, bar *k*, and screw-bolt *n*, substantially as shown and described, for the purpose specified.

2. The improved milk-carrier, formed by the arrangement, with the can *a*, of the lining *d*, cover *b*, bar *k*, links *h*, screw-bolt *n*, standard *r*, and padlock, or other equivalent fastening device, substantially as shown and described.

LEWIS MORRIS.

Witnesses:

D. OURAND,  
SOLON C. KEMON.