

No Model.)

C. E. & J. F. WEAVER.
GRATE COVER AND FASTENER.

No. 513,353.

Patented Jan. 23, 1894.

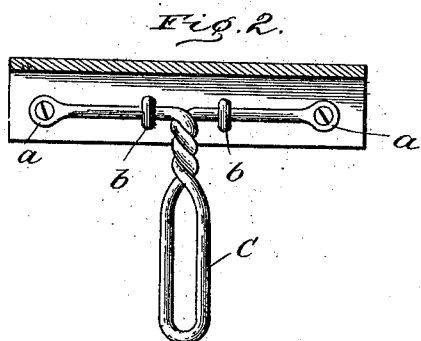
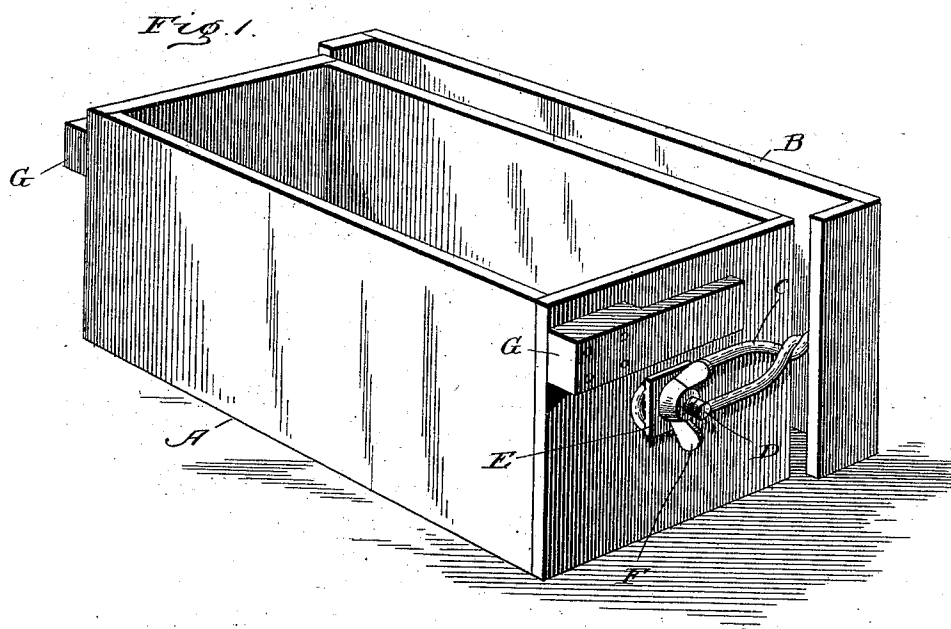
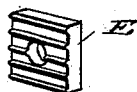


FIG. 3.



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UNITED STATES PATENT OFFICE.

CHARLES E. WEAVER AND JOSEPH F. WEAVER, OF CHELSEA, IOWA.

CRATE-COVER AND FASTENER.

SPECIFICATION forming part of Letters Patent No. 513,353, dated January 23, 1894.

Application filed April 8, 1893. Serial No. 469,589. (No model.)

To all whom it may concern:

Be it known that we, CHARLES E. WEAVER and JOSEPH F. WEAVER, citizens of the United States of America, residing at Chelsea, in the county of Tama and State of Iowa, have invented certain new and useful Improvements in Crate-Covers and Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention relates to boxes and crates, and it consists in the means of connecting the cover and body so as to render them normally inseparable and in also constituting the connections a means of fastening the cover when the vessel is closed substantially as hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawings, Figure 1, is a perspective view of a box and cover with our improvements attached. Fig. 2, is a detail showing one end of the cover with the connecting hasp attached. Fig. 3, shows the connecting hasp in side elevation and a toothed washer in perspective.

Referring to the several parts by letters of reference: A, indicates the body of the vessel, B the cover, C a hasp for connecting the cover to the body and for forming a part of the fastening when the cover is in place.

D is a bolt secured to the body and passing through the opening in the hasp C.

E is a toothed washer placed on the bolt D and between the hasp and the thumb-nut F, and G, G are brackets on the body, upon which the ends of the cover rest when the vessel is closed. These brackets are cut away on one side so as to allow the hasp C to pass between them and the end of the vessel. One side of the hasp is notched as shown in Fig. 3, and when the cover is in position these notches register with the teeth on the washer E, so that when the thumb-nut F is closed upon it, the teeth will engage the notches and prevent the hasp from turning on the bolt.

The method of opening, closing and fastening the cover when closed is as follows: The nuts F are loosened when the vessel is uncovered and the hasps C can move freely between the body and the washer E, but when

the cover is in position to close the vessel, the nuts are screwed tightly against the washer, forcing the teeth into the notches on the hasp and thereby preventing the raising of the cover and consequently its removal.

The form of the hasp and its mode of attaching is shown in Fig. 2, where C shows a loop formed by bending the wire and winding the two members upon each other for two or three turns and then separating them by bending in opposite directions and at right angles to the shank formed by twisting of the members. The ends of these arms are shown as flattened and perforated and attached by screws at *a, a* and further secured by staples *b, b*, which are placed nearer the shank. If preferred, the ends might be sharpened and bent so as to be driven in the wood at *a, a* instead of using the screws, but I prefer the perforations and screws as shown in the drawings.

The hasp C and other connections are only shown attached to one end, as the body of the vessel is supposed to hide those on the opposite end from view, but it is understood that each end of the vessel is similarly provided.

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

1. The combination with the box or crate and the cover therefor, of the hasp connected to said cover, a bolt projecting from said box or crate and forming the pivot for said hasp, and a thumb-screw on said bolt designed to bind said hasp, substantially as set forth.

2. The combination with the box or crate and the cover therefor, of the hasp connected to the end of said cover and having a toothed surface, a bolt projecting from said box or crate and forming the pivot for said hasp, the serrated washer on said bolt, and the thumb-screw for binding said washer and hasp, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

CHARLES E. WEAVER.
JOSEPH F. WEAVER.

Witnesses:

W. W. KENNER,
E. A. SOUTHARD.