A. L. WAGSTAFF.

CASE AND FASTENER THEREFOR.

APPLICATION FILED MAR. 30, 1921. RENEWED OCT. 19, 1922.

1,436,836.

Patented Nov. 28, 1922.

Fig. 1.

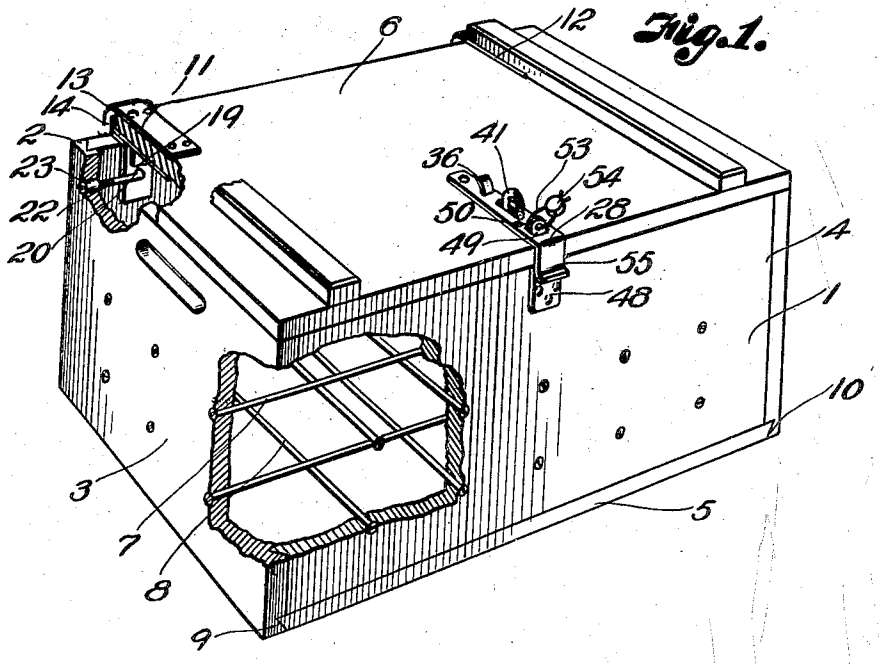


Fig. 2.

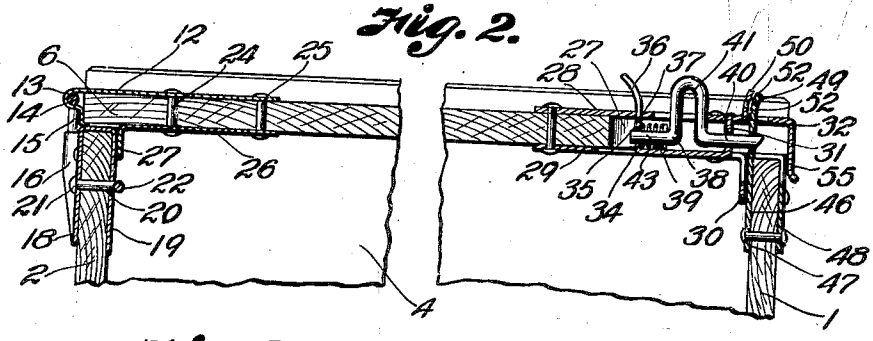


Fig. 3.

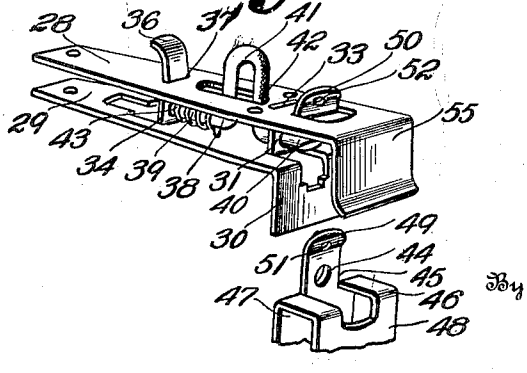
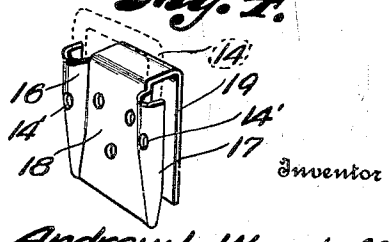


Fig. 4.



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UNITED STATES PATENT OFFICE.

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CASE AND FASTENER THEREFOR.

Application filed March 30, 1921, Serial No. 456,820. Renewed October 19, 1922. Serial No. 595,677.

To all whom it may concern:

Be it known that I, ANDREW L. WAGSTAFF, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Cases and Fasteners Therefor; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to a box fastener and particularly to a box or case fastener adapted to be applied to shipping cases or boxes.

The primary object of the invention is to provide an improved device of the class described, which may be conveniently attached to a box or case to serve as a temporary fastening means, there being means provided whereby the lid or cover can be conveniently latched to the front wall thereof in such a manner that a seal may be provided for sealing the box or case during transportation.

It is also the purpose of my invention to provide a cover, the hinges and fastening device being so co-related that the hinges and fastening device will act as spacing members to maintain the front and back of the box in proper alignment and hold them rigid with respect to the remainder of the box, there being means provided whereby pressure from the outside against either the front or the rear of the box will be resisted by the hinges and the fastening device so that any tendency for the front and back of the box to collapse inwardly will be eliminated, this being an important feature in knock-down boxes or crates.

The novel construction of the device will be apparent by reference to the following description in connection with the accompanying drawings, in which

Fig. 1 is a perspective view of a case to which my invention is applied, parts being broken away to show the interior construction thereof.

Fig. 2 is a cross sectional view through a portion of the box and through the fastening device.

Fig. 3 is a detail perspective view of the hasp and a portion of the keeper constituting the fastening device, and

Fig. 4 is a perspective view of one of the hinge plates.

The box or case to which my invention is applied is shown as consisting of a front wall member 1, a rear wall member 2, ends 3 and 4, a bottom 5, and a hinged cover or top 6. The members 1, 2, 3 and 4 are secured to the bottom 5 by longitudinal tie rods 7 and transverse tie rods 8, which removably connect the front and back portions 1 and 2 and the end members 3 and 4, the bottom being secured to the end members through the under-cut joints 9 and 10. The knock-down feature of the case or box, however, constitutes no part of the present invention, the fastening device being applicable for use on any type of case or box.

I have shown the hinged member 6 provided with straps 11 and 12, which extend beyond the rear edge of the cover 6 and are bent back upon themselves to provide bearings 13 to receive the cross bars 14 of the U-shaped wires 15. The ends of the U-shaped wires extend through openings 14′ in the barrels 16 and 17 of the hinge plates 18, which are U-shaped in cross section and which are provided with depending plates 19 so that the major portion of the plate 18 may lie against the outside of the member 2 and the inner plate 19 may lie against the inner face of the back 2, as clearly seen in Figs. 2 and 4.

The plate 18 is also secured to the back 2 through the medium of an L-shaped bolt 20, the head 21 of which may lie against the plate 18 and the shank 22 of which extends at right angles thereto and projects into a sleeve nut 23 in the end of the box so that the sleeve nut may be screwed thereinto to additionally brace the parts.

The straps 11 and 12 are preferably riveted to the top 6 by the rivets 24 and 25, which extend through them and through the straps 26 on the under face of the cover 6, the straps 26 having depending ends 27 to lie against the plates 19 when the lid or cover 6 is in closed position, as clearly seen in Fig. 2.

The cover 6 at its front end is provided with a slot 27, covered by a top plate 28 of a hasp, the top plate 28 being fastened to a lower plate 29 which bears against the under face of the cover 6. The top and bot-

tom plates of the hasp may be riveted to the cover by suitable rivets or other fastening devices.

The bottom plate 29 has a depending flange 30, from which and the major portion of the plate 29 is a struck-up portion or lug 31, which is provided with a shoulder 32 on which the plate 28 rests. The tongue 33, extending from the shoulder, passes through an opening in the cover plate 28 and can, if desired, be peened over so that the two plates will be secured together at this point.

The plate 29, near its rear end, is provided with a struck-up portion 34, having a shoulder 35 upon which the rear portion of the plate 28 rests. The extended tongue 36 of less width than the portion 34, projects through an opening 37 in the plate 28 and constitutes a finger-engaging portion to assist in providing a grip to withdraw the spring-pressed bolt 38 slidably mounted in the portions 31 and 34. The ends 39 and 40 of the bolt are connected by an upstanding open-looped portion 41, which projects through a slot 42 in the top plate 28 of the hasp, and between the loop 41 and the upstanding portion 34 of the plate 29 is a coil spring 43, which tends to force the bolt forward so that the end 40 will engage the opening 44 in the upstanding tongue 45 of the keeper 46. The keeper 46 consists of a sheet bent so that it will be U-shaped in cross section, the plates 47 and 48 bearing against the inner face and outer face respectively of the front panel 1 of the box or case.

The upstanding tongue 45 has a projecting end 49, which is adapted to lie parallel with the upstanding tongue 50 on the cover plate 28 so that when the lid is in closed position, the opening 51 in the end 49 will align with the opening 52 in the tongue 50 so that a wire or flexible member 53 may pass through said opening and be connected by a seal 54.

The top plates 28 and 29 of the hasp, with their connecting tongue and projections may be struck from sheet metal, the front end of the plate 28 having a downwardly projecting end flange or extension 55, which overlaps the forward face of the box and will lie parallel with the depending flange 30. The flanges 30 and 55 are so disposed that they will receive the top edge of the front 1 of the box or crate between them, adding rigidity to the box when the lid is closed. The flange 55 will resist any outward bulging of the front member 1 and the flange 30 will resist inward pressure so that the member 1 will be held in place. The strap 24 with its connections to the hinged plate 18, will resist outward movement of the rear walls of the box while the flange 27 will resist pressure from the outside against the rear wall of the box to hold it in place so it will be apparent that the hinged members and the fastening device will serve as additional braces for the box and assist the rods 7 and 8 in maintaining the case in its assembled position.

What I claim and desire to secure by Letters-Patent is:

1. A hasp consisting of two spaced plates, out-struck portions on one plate connected to the other plate, one of the out-struck portions extending beyond the other plate to provide a finger-engaging projection, and a longitudinally movable bolt between the plates and having an intermediate portion extending through a slot in the other plate and in line with the finger-engaging portion.

2. A hasp comprising two parallel plates having their front ends in parallel planes at right angles to the main portions thereof, to engage over the edge of a wall of a case, and a longitudinally slidable bolt mounted between the two plates and across the space between the two front ends.

3. A hasp comprising a bolt holding means, a sliding bolt carried thereby, a keeper for engagement with the bolt, and mating tongues on the hasp and keeper having sealing-wire-receiving openings to align when the bolt engages the keeper.

4. A hasp comprising two spaced plates, spacers struck up from one plate and engaging the other, and a spring-pressed bolt mounted in the spacers.

5. A hasp comprising two spaced plates having spaced end portions at right angles to the main portions, spacers struck up from the main portion of one plate and engaging the other plate, and a longitudinally slidable bolt mounted in the spacers and movable across the space between the end portions.

6. A hasp consisting of two spaced plates, a longitudinally movable bolt mounted between the plates, an upstanding finger-engaging projection on the top plate, and a projecting portion on the bolt extending above the top plate and in line with the finger-engaging portion whereby the bolt and the finger-engaging portion may be grasped by one hand of an operator to draw back the bolt.

In testimony whereof I affix my signature.

ANDREW L. WAGSTAFF.