

No. 831,476.

PATENTED SEPT. 18, 1906.

E. RYAN.
SHIPPING CASE.
APPLICATION FILED APR. 21, 1906..

Fig. 1.

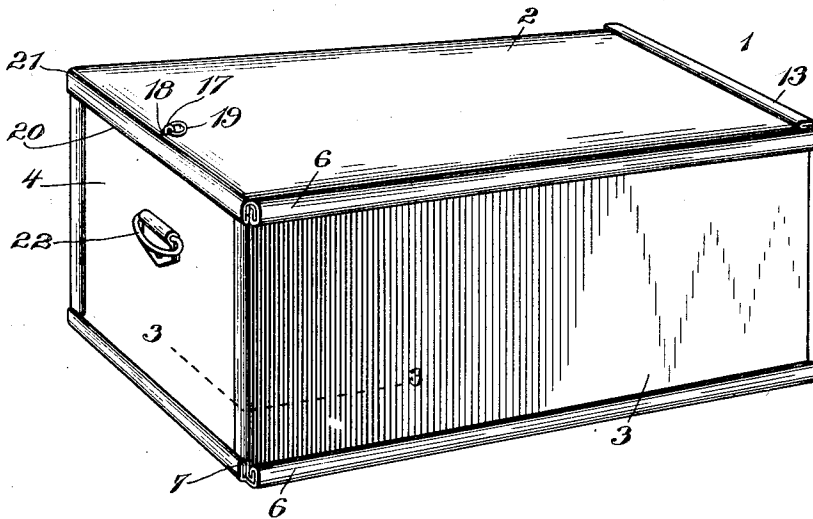


Fig. 2.

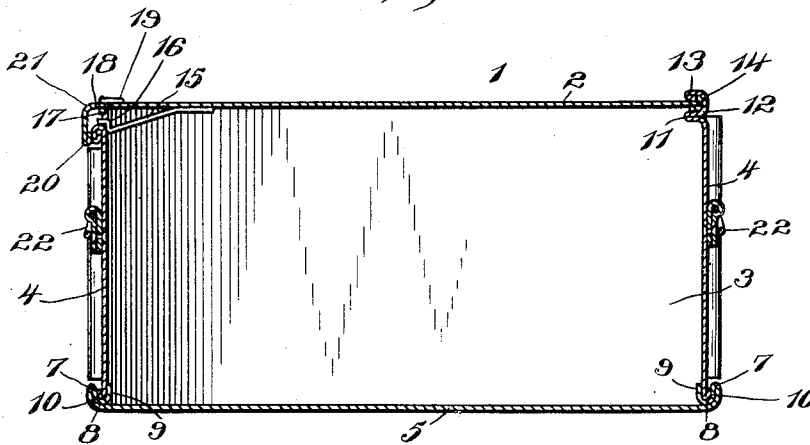


Fig. 3.

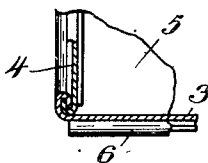
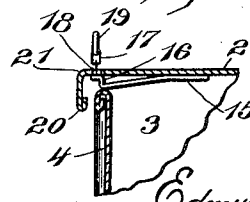


Fig. 4.



Witnesses

T. P. Britt
E. C. Saffy

Inventor

Edmund Ryan

By

O. E. Duffysan
Attorneys

UNITED STATES PATENT OFFICE.

EDMUND RYAN, OF LAWRENCEVILLE, ILLINOIS.

SHIPPING-CASE.

No. 831,476.

Specification of Letters Patent.

Patented Sept. 18, 1906.

Application filed April 21, 1906. Serial No. 312,940.

To all whom it may concern:

Be it known that I, EDMUND RYAN, a citizen of the United States, residing at Lawrenceville, in the county of Lawrence and State of Illinois, have invented certain new and useful Improvements in Shipping-Cases; 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 figures of reference marked thereon, which form a part of this specification.

My invention relates to shipping-cases, and has for its object to provide a metallic case which can be quickly and easily put together for shipment and which can be knocked down for return shipment.

A further object of my invention is to provide a metallic shipping-case which is particularly simple in its construction, cheap, and easy to manufacture, durable, and efficient.

With these objects in view my invention consists in the novel construction of the members of the case which provide for a strong and rigid connection.

My invention also consists in the novel means of securing the top of the case against accidental displacement.

My invention further consists in certain combinations of parts, which will be first fully described, and afterward specifically pointed out in the appended claims.

Referring to the accompanying drawings, Figure 1 is a perspective view of the shipping-case. Fig. 2 is a vertical longitudinal section through the same. Fig. 3 is a fragmentary horizontal sectional view through one corner of the box as on line 3 3 of Fig. 1, and Fig. 4 is a fragmentary vertical sectional view showing the cover of the box in the act of being removed.

Like numerals of reference indicate the same parts throughout the several figures, in which—

1 indicates the box, which comprises the top 2, sides 3, ends 4, and bottom 5.

As shown in Fig. 1, the longitudinal edges of the top and bottom 2 and 5 are rolled in such manner that the longitudinal edges of the sides 3 form therewith a lock-seam 6.

Referring to Fig. 3, it will also be seen that the vertical edges of the sides 3 are rolled in

such manner that a lock-seam is formed together with the ends 4.

Referring now to Fig. 2, it will be seen that the end edges of the bottom 5 are bent upwardly to a point 7, where they are bent back upon themselves to a point 8, and bent vertically at 9, thereby forming a groove or trough 10, and it will be seen that the bottom edge of the ends 4 enter said trough or groove 10 when said ends reach their normal position. Referring also to Fig. 2, it will be seen that the upper edge of one of the ends 4 is bent inwardly to the point 11, then bent back upon itself at 12, then bent inwardly again at 13 in order to form a transverse groove or trough 14, and it will be seen that the end 4 so constructed is of a greater height than the other end 4. This construction just described being for the purpose of receiving the forward edge of the top or cover 2, said edge entering the trough or groove 14 in such manner that the edge of the top 2 braces and supports the end 4 against inward pressure, while at the same time it securely locks said end 4 against vertical movement or accidental displacement.

Referring to Fig. 4 and also to Fig. 2, it will be seen that the top 2 at one end thereof is provided with a spring-catch 15, which is secured in any convenient manner on the under side of the top 2, said catch being provided with a shoulder 16, and a short chain or wire 17, connected to said catch 15, passes through the opening 18, Fig. 1, in the top 2 and carries a ring 19 on the outside of the case. It will also be seen that the edge of the top 2 adjacent the catch 15 is bent at right angles to the top 2, the extreme edge 20 being below the upper edge 21 of the end 4.

As shown, the case can be provided, if desired, with suitable drop-handles 22.

Having thus fully described the several parts of my invention, its operation is as follows: The sides 3 are slid onto the bottom 5, the turned edges of the sides 3 entering the roll at the edge of the bottom 5, thereby forming a lock-seam. When the sides 3 are in position, the ends 4 are slid into engagement vertically with the sides 3, the turned edges of the ends 4 sliding into the roll at the edge of the sides 3, thereby forming a lock-seam. However, this construction of the lock-seam merely supports the ends 4 at the vertical edges thereof and will not brace the said ends 4 against inward pres-

sure on the ends 4 or against a shock such as a shipping-box frequently receives. In order, therefore, to provide suitable bracing and to add strength to the ends 4, the end edges of the bottom are constructed to form a groove or trough 10, as above described, to receive the bottom edge of the ends 4. By this construction the ends 4 are securely braced at the sides thereof by the lock-seam construction and at the bottom edge by the groove or trough 10, as of course is obvious. In order, however, to securely brace and strengthen the ends 4 at the upper edge, as well as at the side and bottom edges, one of the ends 4 is provided with a groove or trough 14, as before described, within which the top 3 enters, so that should said end receive a shock or pressure from the outside it will be seen that the said end is securely braced around all its edges. When the ends 4 are placed in position, the top 2 is slid into position, the roll along its longitudinal edges receiving the turned edge of the sides 3, as shown in Fig. 1, and as said top 2 reaches the limit of its movement its forward edge enters the groove or trough 14 in one of the ends 4 and the spring-catch 15 passes over the upper edge of the opposite end 4 and springs down into position shown in Fig. 2, the shoulder 16 on said spring-catch engaging the end 4 on the inner side thereof in such manner that the top 2 is securely locked in position against accidental displacement, while at the same time the catch 15 acts as a brace to strengthen the end 4 to withstand an inward pressure thereon.

In shipping goods, if desired, a label or strip can be pasted over the opening 18 and the ring 19 on the top 2, so that it is necessary to break said label or strip in order to open the box, thus insuring the original contents, for in order to open a case it is neces-

sary to grasp the ring 19 and draw the same, so that the shoulder 16 of the catch 15 is raised above the edge of the end 4. When said catch is in this position, the top 2 can be slid off of the case.

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

1. In a case of the character described, the combination of the bottom and sides having a lock-seam engagement, said bottom being provided at each end with a groove or trough, and the ends being constructed to form a lock-seam engagement with the sides and arranged to enter the said groove or troughs in the said bottom, one of said ends being provided with a groove or trough, a top being constructed so as to form a locking-seam engagement with the said sides and to enter said groove or trough in the said end, and means on said top for engaging one of the ends when said top is in position to lock the top against accidental displacement, substantially as described.

2. In a case of the character described, the combination of the bottom and sides, said bottom being provided with a transverse groove or trough at each end thereof, the ends being constructed for engagement with the said sides and arranged to enter the said groove or trough at each end of the bottom, one of said ends being provided with a groove or trough, and a top being constructed for engagement with the said sides, and arranged to enter the said groove or trough in one of said ends, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

EDMUND RYAN.

Witnesses:

JOHN L. FLETCHER,
C. HUGH DUFFY.