(No Model.)

R. C. SNOWDEN.

BOX STRAP AND CORNER IRON.

No. 513,210. Patented Jan. 23, 1894.

Fig. 1.

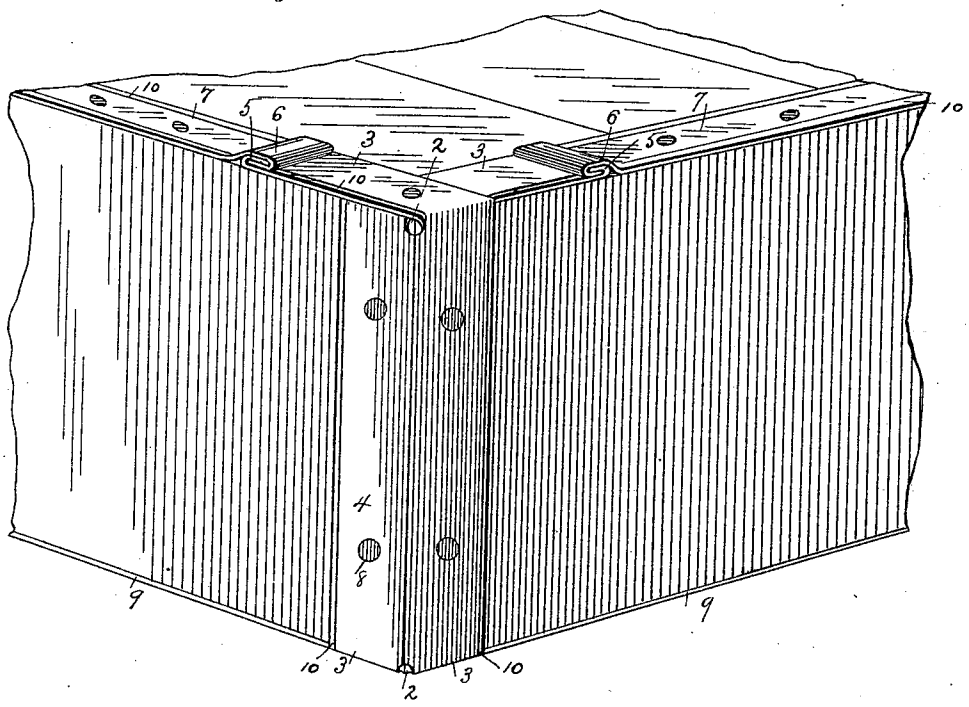


Fig. 2.

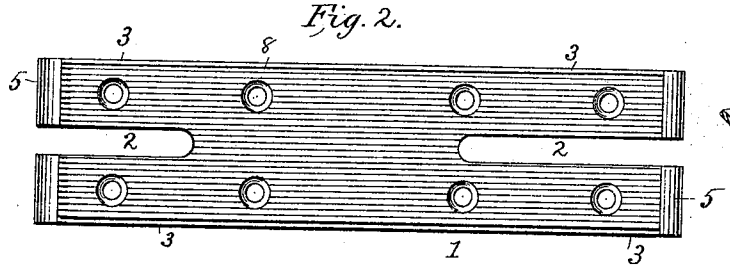


Fig. 4.

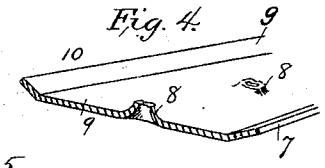
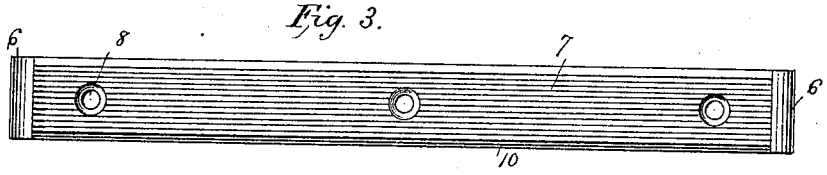


Fig. 3.



Attest:

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ROBERT C. SNOWDEN, OF DUQUESNE, PENNSYLVANIA.

BOX-STRAP AND CORNER-IRON.

SPECIFICATION forming part of Letters Patent No. 513,210, dated January 23, 1894.

Application filed February 13, 1893. Serial No. 462,179. (No model.)

To all whom it may concern:

Be it known that I, ROBERT C. SNOWDEN, a citizen of the United States, residing at Duquesne, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Box-Straps and Corner-Irons; and I do hereby 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.

This invention, as hereinafter described and claimed, relates to a novel box strap and corner irons for wooden boxes and other receptacles whereby the edges, corners, lid and bottom of a box are strengthened and the several sections of the box securely held together and a bottom brace and support afforded the box.

In the accompanying drawings:—Figure 1 represents a box, minus its lid, with my improved strap and corner irons in position thereon. Fig. 2 represents a top plan view of a blank for forming a corner-iron. Fig. 3 represents one of the longitudinal straps. Fig. 4 represents, in under side view, one of the bottom straps.

The object of my invention is to furnish wooden boxes and other receptacles with edge, corner, bottom and lid-strengthening bracing and connecting straps or irons of cheap construction having novel means of connection whereby wooden boxes of somewhat frail construction will be adapted for receiving and safely transporting materials of great weight and the liability of the separation of the box sections under any strain or rough handling entirely prevented.

1 represents a blank from which my improved corner-iron is formed. This blank is of any suitable metal, as sheet-iron and is, by suitable machinery or appliances, struck out in the form shown in Fig. 2; that is to say, in each end is formed a central longitudinal slot 2 to permit of the thereby formed wings 3, 3, when the blank 1 is bent around the corner of the box, to form the corner-iron 4, being bent across one another and upon the edges of the adjacent side and end of the box as shown in Fig. 1. These wings 3 have inturned or hook-shaped ends or lips 5 with which are engaged as shown in Fig. 1, similar downturned lips, 6, at the ends of the longitudinal straps 7 the respective lips 5, 6, being hooked the one within the other when the straps and corner-irons are placed in position and then hammered together. By means of these lips it will readily be seen that a simple yet effective locking connection is provided between the respective straps and corner-irons.

8 represents countersunk nail or screw holes formed in the respective straps and corner-irons by punching out and down a portion of the body thereof. By thus countersinking the holes 8 not only can the protruding edges of said holes be driven into the wood of the box but seats will be provided for the heads of the nails or screws which will by this construction not project beyond the surface of the straps and corner-irons.

9 represents longitudinal strips designed for application to the bottom and lid of the box. These strips 9 are of similar formation to that of the longitudinal strips 7 heretofore described except that their side edges are beveled or curved as shown at 10 for the double purpose of preventing the sharp edges of the straps catching on or against persons handling the boxes, or against other boxes in packing the one on another, and of affording runners upon which the boxes may be easily slid. The edges of the corner-irons are also beveled or rounded to avoid projecting sharp edges to catch and tear clothing and the hands of persons handling the boxes or similar receptacles.

What I claim is—

1. A box strap, consisting of longitudinal straps having beveled edges, countersunk nail holes having protruding under edges and curved or hooked ends, and corner-irons having countersunk nail-holes beveled edges and slotted and winged ends, said wings extending crosswise of each other and engaging, respectively, the side and end edges of the box and having curved or hooked ends to engage the similarly-shaped ends of the longitudinal straps, substantially as and for the purpose set forth.

2. In a box strap, the combination of longi-

tudinal straps having down-turned bevel-shaped side edges hooked ends and a series of nail-holes, and corner-irons having down-turned bevel-shaped side edges a series of nail-holes, bifurcated ends adapted to fold over crosswise upon the adjacent right-angled edges of the box and having hooks on their respective bifurcated ends to engage the similar hooks on the ends of the longitudinal straps substantially as and for the purpose set forth.

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

ROBERT C. SNOWDEN.

Witnesses:
J. W. ALLIG,
GILBERT F. MYER.