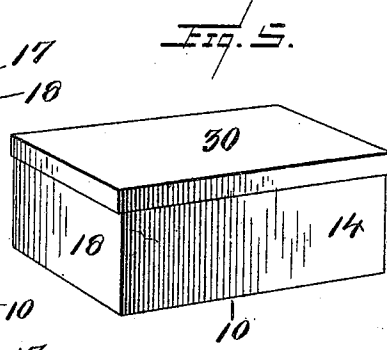
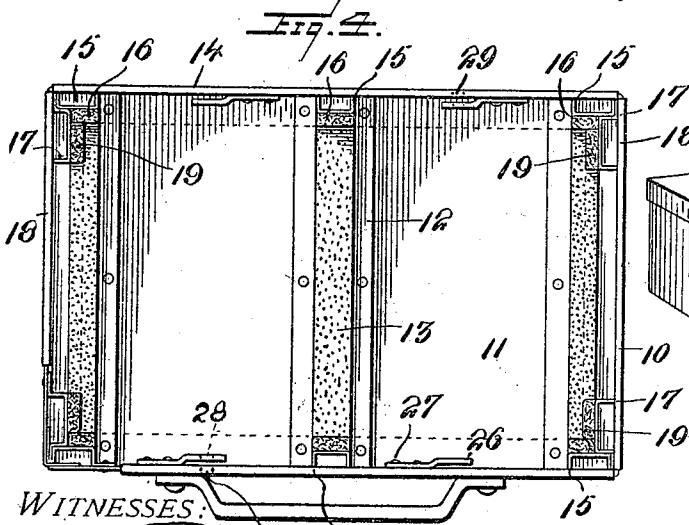
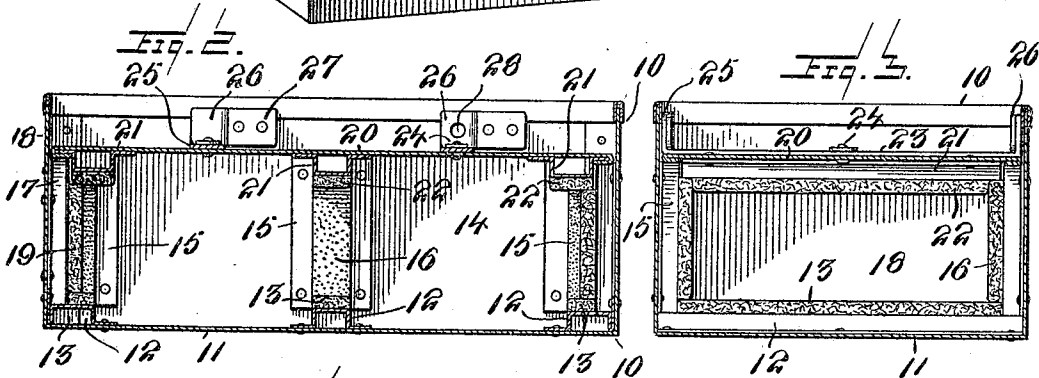
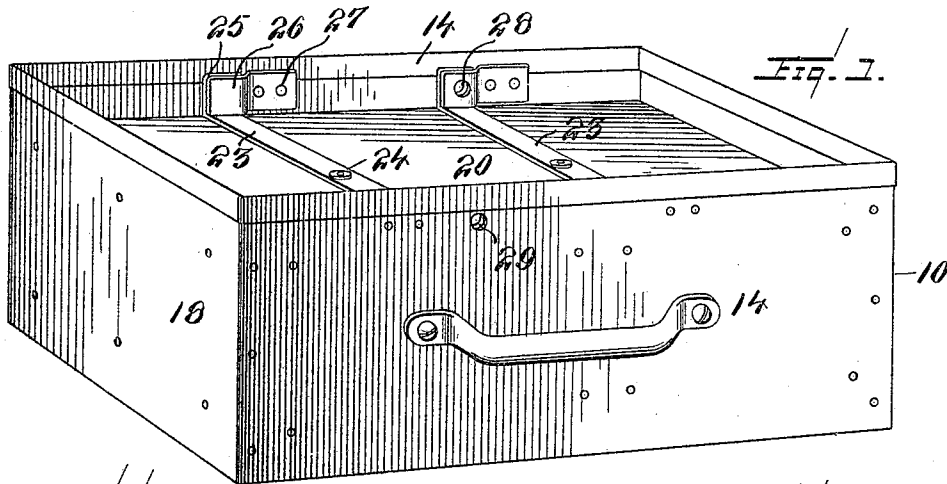


W. L. COOK.
PACKING BOX.

APPLICATION FILED JUNE 24, 1909.

946,017.

Patented Jan. 11, 1910.



WITNESSES:

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WILLIAM L. COOK, OF ANDERSON, INDIANA.

PACKING-BOX.

946,017.

Specification of Letters Patent. Patented Jan. 11, 1910.

Application filed June 24, 1909. Serial No. 504,138.

To all whom it may concern:

Be it known that I, WILLIAM L. COOK, citizen of the United States, residing at Anderson, county of Madison, and State of Indiana, have invented certain new and useful Improvements in Packing-Boxes, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a packing box, and particularly to a structure adapted to receive plates or sheets of glass or other fragile material for shipment.

The invention has for an object to provide a packing box having spaced cleats upon its sides, ends and bottom, and the closure therefor having coöperating cleats upon its under face, all of these cleats being provided with packing material to engage the plates to be carried by the box.

A further object of the invention is to provide improved means for securing the closure in position to prevent shifting of the material carried by the box.

Other and further objects and advantages of the invention will be hereinafter fully set forth and the novel features thereof defined by the appended claims.

In the drawing:—Figure 1 is a perspective of the box; Fig. 2 is a longitudinal section thereof; Fig. 3 is a central cross section; Fig. 4 is a top plan with the cover removed; Fig. 5 is a perspective showing a modified form of cover.

Like numerals refer to like parts in the several views of the drawing.

The numeral 10 designates the body of the box which may be of any desired construction or configuration, and is preferably formed of sheet metal so as to secure the maximum strength and rigidity with the minimum weight. The bottom 11 of the box is provided with transverse cleats 12 which are preferably formed of an angular metal strip secured to the bottom so as to form a hollow cleat which is provided upon its upper face with packing 13 upon which the material to be transported rests. These cleats may be disposed at any desired intervals relative to the size of the box, and are here shown as disposed at opposite ends thereof and intermediate of said ends. The side walls 14 of the box are also provided with similar cleats 15 having packing 16 secured to their inner faces, such cleats being disposed at the corners of the box and inter-

mediate thereof. At these corner portions the cleat 17 is secured to the end walls 18 of the box and provided with the packing 19 to prevent longitudinal movement of the material. It will be seen that these packed cleats support the glass plates to be transported both above the bottom of the box and out of contact with the side and end walls thereof.

The cover or closure 20 for the box is provided upon its inner face with a series of cleats 21 of similar angular construction, each of which is adapted to fit between the side cleats 15 and is provided with a packing 22 to engage the upper surface of the material disposed within the box to form a complete packed interior, as shown in Fig. 3.

For the purpose of retaining the closure 20 in position within the walls of the box, as shown in Fig. 1, it is provided with one or more latch levers 23 pivoted at 24 upon the cover 20 and having at opposite ends angularly disposed portions 25 adapted to engage beneath the latch plates 26 which are secured at 27 to the inner face of the side walls 14.

If desired the latch plate at one end of the lever 24 may be provided with an aperture 28 extending therethrough in alinement with a similar aperture in the portion 25 of the lever when latched, and also with an aperture 29 in the side wall of the box so that a locking device of any desired character can be inserted through the several apertures to prevent unauthorized removal of the cover from the box.

In Fig. 5 a modified construction of the cover for the box 10 is shown in which the cover 30 overlaps or embraces the upper edges of the box instead of telescoping therein. The box is otherwise of the construction hereinbefore described.

The operation of the invention will be apparent from the foregoing description, and it will be seen that a series of sheets or plates may be disposed upon the packings in contact with each other, while they are held by the cleats against any movement. These metallic cleats stiffen and strengthen the box, and the cleats upon the cover by engaging the side cleats effectually prevent any lateral compression even if the box be disposed on edge. While the cleats have been described as formed of angular metal, which is the preferable construction, still they may be made of any desired material and the cover

may be secured in position by any preferred means. It is desirable, however, that the box be made of proper size to accommodate the plates of glass to be shipped therein and that the side and end cleats be disposed at the corners of the box so as to form an angular cleat at that point, while any desired number of transverse cleats may be disposed between the ends of the box. It will therefore be seen that the invention presents a simple, efficient and economically constructed packing box for glass plates which is devoid of any movable or adjustable parts and absolutely rigid so as to prevent such movement as would injure the material packed therein.

The box is shown in position for packing and when transported the closure forms a side thereof in order that the weight of the plates may be carried upon their edge.

Having described my invention and set forth its merits, what I claim and desire to secure by Letters Patent is:—

1. In a packing box, a closure for said box, vertically disposed latch plates located upon and spaced from the inner face of the side walls of said box and parallel thereto, and a securing lever pivoted upon the upper face of said closure and adapted to engage said plates at its opposite ends.

2. In a packing box, a closure for said box, vertically disposed latch plates located upon and spaced from the inner face of the side walls of said box and parallel thereto, and a securing lever pivoted upon the upper face of said closure and having at its opposite ends angularly disposed upwardly extending

portions adapted to pass between said plates and the side wall of said box.

3. A packing box provided with cleats disposed upon its sides and bottom, a closure insertible within said sides and supported by the side cleats and provided with cleats upon its inner face in alinement with and adapted to pass between said side cleats at their opposite ends, and packings secured to the inner face of all of said cleats.

4. A packing box provided with spaced cleats upon its sides, ends and bottom, a closure plate adapted to be supported by the side cleats and to enter the open side of said box, cleats upon the inner face of said closure plate disposed in alinement with the inner face of said side cleats, packings secured to all of said cleats, securing devices upon the inner face of the walls of said box, and means carried by said closure plate to engage said devices.

5. In a packing box, a closure plate adapted to enter the open side of said box, a securing lever pivoted upon the upper face of said closure and having angular portions at each end, and latch plates secured at one end to the walls of said box above said closure plate and spaced parallel to said walls at their opposite ends to receive the angular portion of said lever.

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

WILLIAM L. COOK.

Witnesses:

RICHARD E. COOK,
WILLIE E. JETT.