B. JUSTEN.

WOODEN PACKING CASE.

APPLICATION FILED MAR. 12, 1913.

1,077,834.

Patented Nov. 4, 1913.

2 SHEETS—SHEET 1.

Fig. 1.

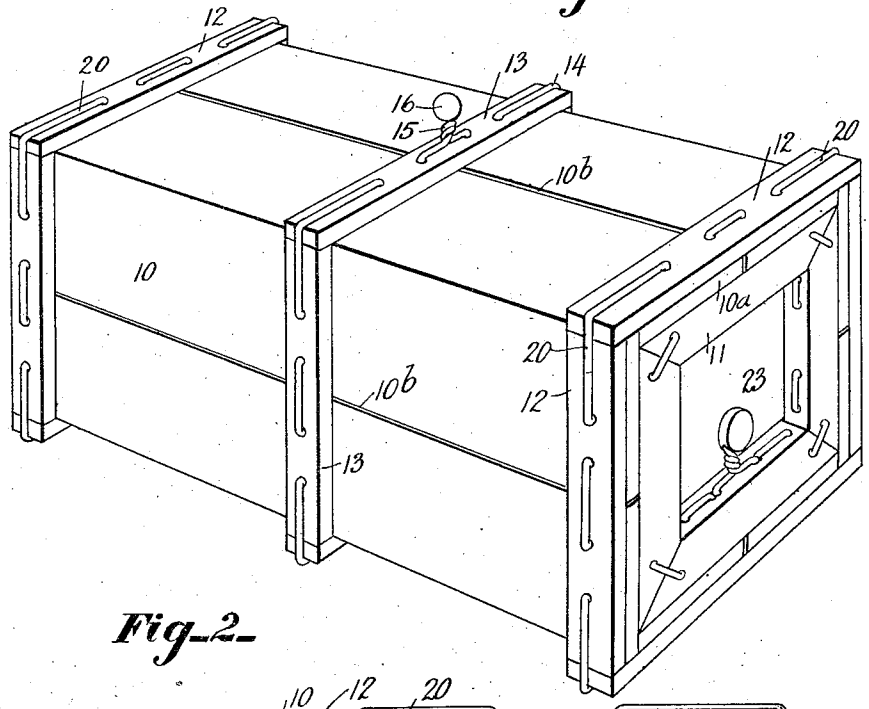
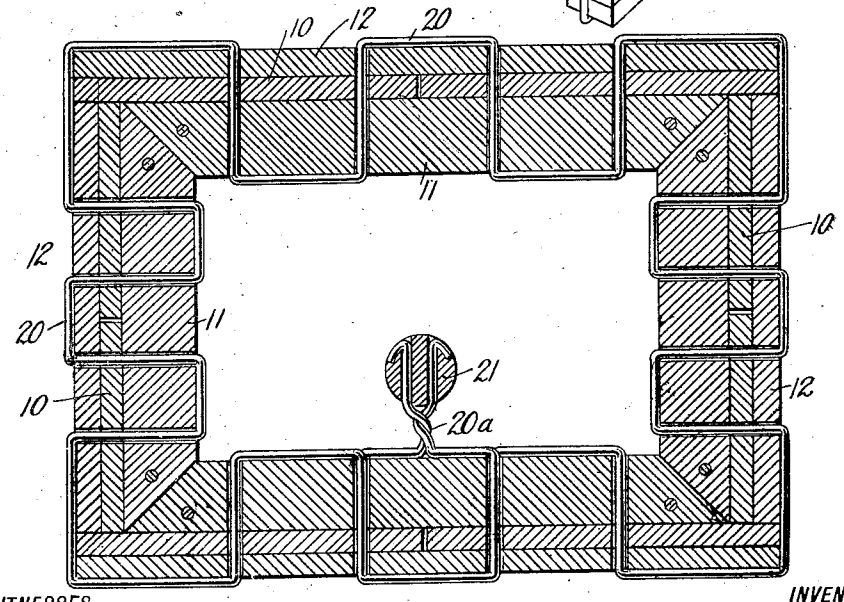


Fig. 2.



WITNESSES

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Fig. 3.

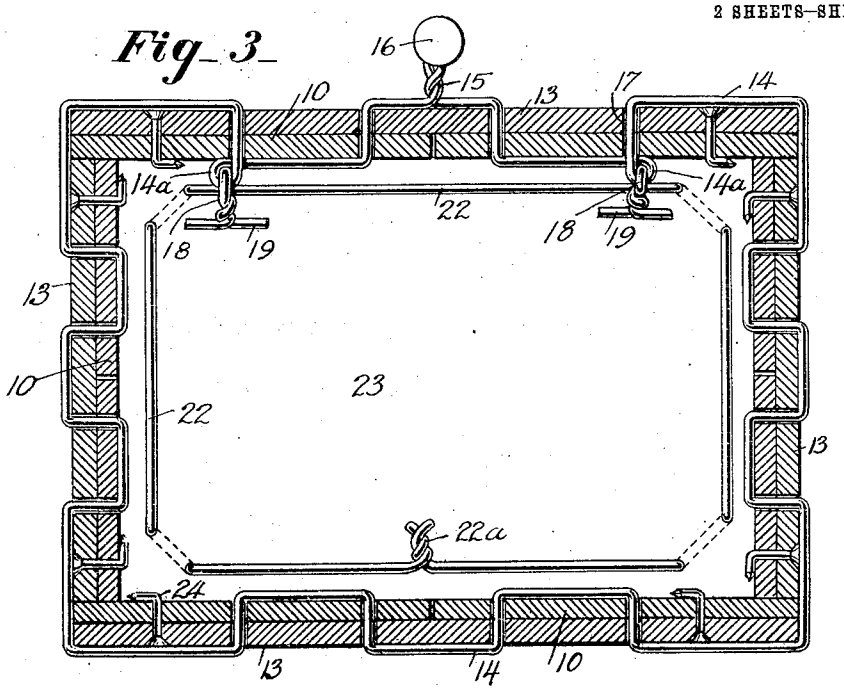
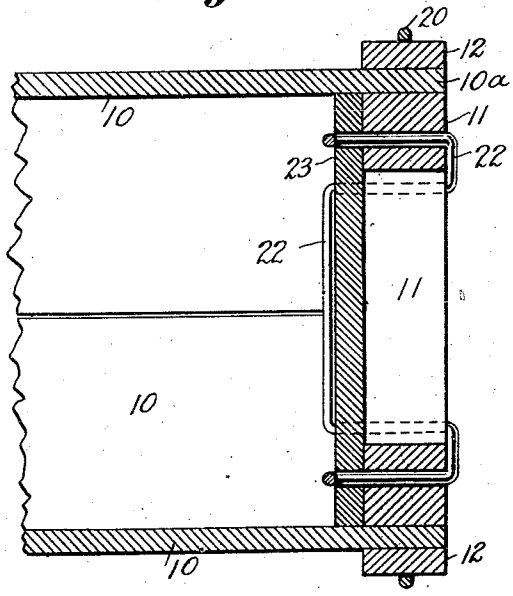


Fig. 4.



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BERNARD JUSTEN, OF TAMPA, FLORIDA.

WOODEN PACKING-CASE.

1,077,834. Specification of Letters Patent. Patented Nov. 4, 1913.

Application filed March 12, 1913. Serial No. 753,726.

To all whom it may concern:

Be it known that I, BERNARD JUSTEN, a citizen of the United States, and a resident of Tampa, in the county of Hillsboro and State of Florida, have invented a new and Improved Wooden Packing-Case, of which the following is a full, clear, and exact description.

My invention relates to a packing case for general shipping purposes, and more especially to a case in which cleats are provided extending around the case on the exterior in a way to strengthen the case, the cleats being provided with wires laced therethrough. The cleats cross the joints between side boards at the several sides of the case. The cleats are arranged at each end and intermediate the ends, and the wires of the end cleats are laced through said cleats, through the ends of the side boards and through the end frames of the case. An additional wire is laced through the end frames transversely to the lacing of the cleats, and the several wires are sealed in any approved manner.

The detail construction and arrangement, as well as the advantages, will appear from the following description.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a perspective view of a packing case embodying my invention; Fig. 2 is a cross-section taken adjacent to an end of the case; Fig. 3 is a cross-section taken through the intermediate cleat; and Fig. 4 is a detail longitudinal vertical section taken through an end of the case.

In forming a packing case in accordance with the illustrated example, side boards 10 constitute the four sides; the ends thereof overlie end frames 11, the end frames being preferably mitered. Around the case at the ends cleats 12 are secured, extending around the four sides of the case, so that the ends of the side boards 10 lie between the end frames 11 and said cleats. Between the ends of the case intermediate cleats 13 are secured, extending around the four sides. In connection with the intermediate cleats a wire 14 is employed which is laced through the cleats and boards, passing alternately to the inside and to the outside, as clearly shown in Fig. 3, and the meeting ends of the wire are brought together, twisted as at 15, and then secured by any suitable seal 16, or its equivalent. As the seal 16 lies on the exterior of the case and might possibly, by contacting with other objects, be knocked off and permit the ends 15 to separate, I provide means within the case to prevent the wire from being pulled out of place. Thus, on the interior of the case adjacent to the end holes 17, through which the wire passes at one side of the case, say the top, loops 18 are provided by twisting a wire 19, and through these loops the wire 14 is passed and itself given a looped form, as at 14^a. It will be obvious that, should the seal 16 be broken, the loops 18 will prevent the wire 14 from being withdrawn. A wire 20 is laced through the end cleats 12, through the ends of the boards 10 beneath said cleats, and through the end frames 11, the said wire passing alternately to the interior and the exterior of the case, as clearly shown in Figs. 1 and 2, the ends of the wire being brought together as at 20^a and secured by a seal 21, or its equivalent. It will be seen that the seal lies within the end frame 11 and is thus protected against accidental breakage by contacting with another object. An additional wire 22 is laced horizontally, that is, transversely to the direction of the lacing of the wire 20, and passes through the end frame 11 alternately to the interior and exterior of the case through end panels 23, which are secured to the inside of each end frame 11. Each wire 22 extends around an end frame, and at the interior of the case the ends of the wire are twisted together, as at 22^a.

It will be observed that the cleats 12 and 13 extend across the joints 10^b between the side boards, and thus a cutting tool cannot be entered in a joint or seam and run along the latter to sever the wire.

In practice, the cleats are nailed and are clenched on the inside, as indicated in Fig. 3, at 24. The provision of the cleats and the wires as specified enables the manufacturer to use much thinner lumber than is usually required for ordinary packing cases. Since the cleats cross the boards it will be necessary only to form four holes in a cleat, to secure the latter in position, regardless of the size of the packing case. The wires 14 and 20, it will be observed, extend over the corners of the case on the exterior, firmly bonding the separate cleat members together. The wire lacing forms a firm union between

the boards and cleats, and in the case of the lacing at the ends forms a union also between the cleats, the boards and the end frames, thereby giving the maximum strength and security.

The panels 23 may be in the form of a single panel or separate boards, and in the latter case the wire 22 overcomes the defect in the ordinary case, in which the middle end board can readily be displaced to permit tampering, whereas the wire 22 will absolutely prevent this, since it firmly secures the end boards to the frame.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A packing case composed of side boards, end frames overlapped by the ends of the side boards, end panels secured to the end frames at the inside, exterior cleats extending around the four sides over the side boards at the ends, an intermediate cleat extending around the case between the ends, said cleats crossing the joints between the side boards, a wire laced through the intermediate cleat and through the side boards, running over the corners of the cleats at the exterior of the case, wires laced through the end cleats, through the ends of the side boards and through the end frames, and wires running around the end frames and laced transversely to the lacing of the other wires through the end frames and end panels.

2. A packing case composed of side boards, end frames overlapped by the ends of the side boards, cleats extending around the case at the four sides, a wire laced through the cleats and side boards, and loops on the interior of the case through which the said laced wire is looped.

3. A packing case comprising side boards, end frames overlapped by the side boards, cleats extending around the case at each end over the ends of the side boards, and a wire laced through the said cleats, through the ends of the side boards and through the end frames.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BERNARD JUSTEN.

Witnesses:
GUS SECKBACH,
PAUL RODRIQUEZ.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."