

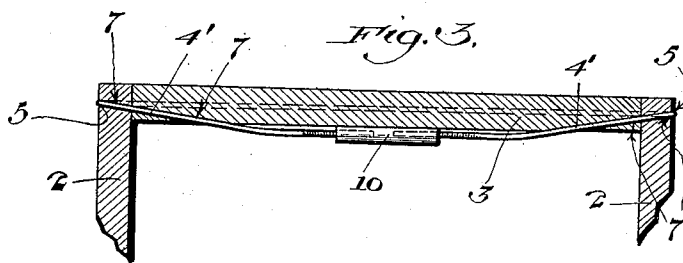
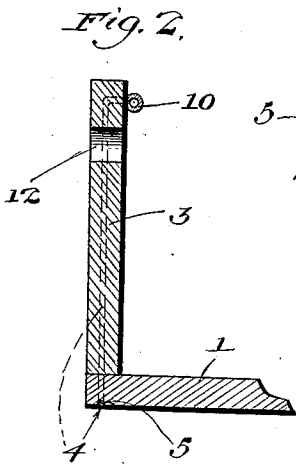
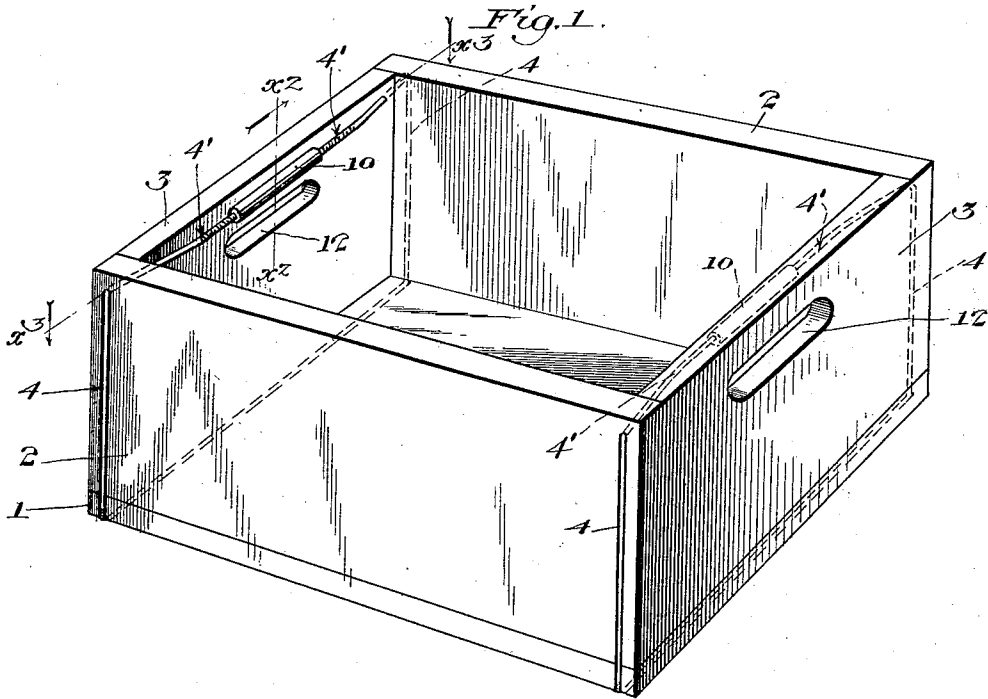
W. H. CRESWELL.

CRATE.

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1,055,521.

Patented Mar. 11, 1913.



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UNITED STATES PATENT OFFICE.

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CRATE.

1,055,521.

Specification of Letters Patent.

Patented Mar. 11, 1913.

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To all whom it may concern:

Be it known that I, WILLIAM H. CRESWELL, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Crate, of which the following is a specification.

This invention relates to crates, boxes or cases, such, for example, as are used in carrying beer bottles or other packages, and which have to be handled repeatedly in the transportation of such bottles or packages. Crates or cases used for this purpose are liable to be broken or to come apart by reason of the strains to which they are subjected, and the main object of the present invention is to provide simple and effective means for bracing the crates against such strains and firmly holding the several parts of the crate together.

Another object of the invention is to provide for tightening the bracing and holding devices when necessary.

Another object of the invention is to dispense with box straps such as are sometimes used for crates of this character.

Other objects of the invention will appear hereinafter.

The accompanying drawings illustrate an embodiment of the invention, and referring thereto:

Figure 1 is a perspective of the crate or case. Fig. 2 is a vertical section of one end of the case. Fig. 3 is a horizontal section on line x^3-x^3 in Fig. 2.

The crate or case comprises a bottom 1, sides 2 and end members 3, all said parts being formed in the usual manner, of wood, and being connected together to form a rectangular box, crate or case, by nails or any other suitable means. The bracing and retaining means comprises two wires or rods 4, one of which is provided at each end of the box. Each wire or rod 4 extends in a groove or channel 5, cut in the bottom 1 and in the sides 2 of the box, either by grooving the said members before the wire or rod is put in place, or by drawing the wires or rods into place with sufficient tension to cause them to be embodied in the wooden bottom and sides. The end portions 4' of the said wire or rod 4 are bent inwardly and extend through openings 7 in the side members 2 and end members 3, said openings extending

obliquely inward toward the center of the box, through side members 2 and the end members 3 and openings on the inside of the end members so that the end portions 4' of the wires or rods 4 may extend through said openings 7 to the inside of the box. It will be observed that the portions of the wires or rods 4 which are outside of the box extend around the end members 3 so that the tension of said wires or rods on the sides and bottom members is resisted by the end members, and the oblique direction of the holes 4 enables the inner end portions of the wires or rods to be brought out of the plane of the outer portion thereof to the inside of the box, so as to engage with tightening means inside of the box. Said tightening means consists of a turn buckle formed, for example, as a sleeve 10 internally screw threaded to engage right and left screw threads on the respective end portions 4' of the wire or rod 4. By tightening up this turn buckle any desired amount of tension may be put on the wire or rod 4 to cause the same to tightly grip the bottom and side members against the end members and hold the parts together, thereby enabling the crate or case to withstand the jarring strains, incident to its use.

The box or crate is preferably provided with the usual hand holes 12 in the end members 3 and the turn buckle above described is located between said hand holes and the top of the crate or case, so that it does not interfere with the convenient manipulation of the crate or case, or with the placing of the bottles or packages therein.

What I claim is:

1. A crate comprising bottom, side and end members, and a flexible bracing and retaining means extending under the bottom and upwardly at the outside of each side member and inwardly through the side and end members to the inside of the box, and tightening means for said bracing means consisting of a turn buckle on the inside of the box engaging the inner ends of said bracing means.

2. A crate comprising bottom, side and end members, and bracing and retaining means for said members consisting of a wire at each end of the box extending under the bottom and upwardly at each side of the box around the end member at that end and

obliquely inwardly through the side members and end members, to the inside of the box, the inner ends of said wire being provided with right and left hand screw
5 threads, and a sleeve screwing on said screw threads to draw the wire tight.

In testimony whereof, I have hereunto

set my hand at Los Angeles, California this 21st day of October, 1912.

WILLIAM H. CRESWELL.

In presence of—

ARTHUR P. KNIGHT,
MARTHA M. LANGE.

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