No. 611,511. Patented Sept. 27, 1898.

R. ROBINSON.

CONSTRUCTION OF BOXES.

(Application filed Nov. 8, 1897.)

(No Model.)

Fig 1.

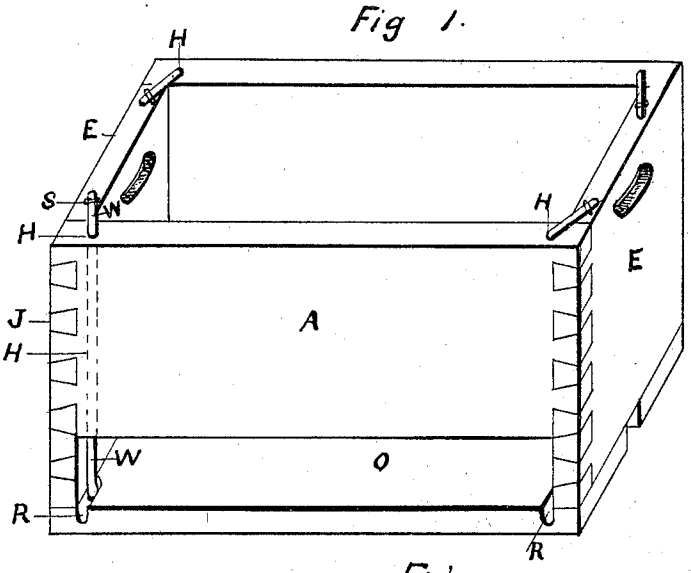


Fig 2.

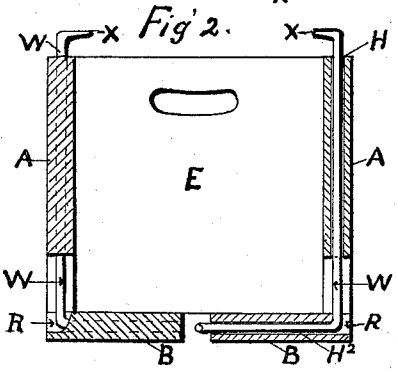


Fig 3.

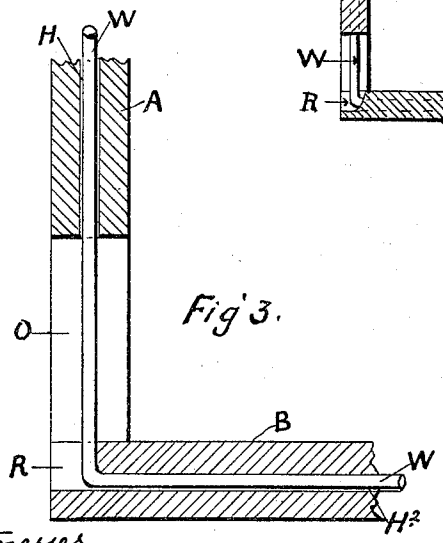
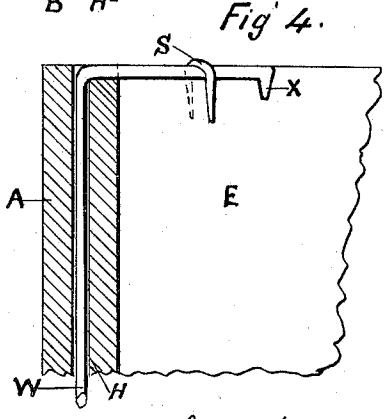


Fig 4.



Witnesses.
Isaac Beck.
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

RUPERT ROBINSON, OF SHEFFIELD, ENGLAND.

CONSTRUCTION OF BOXES.

SPECIFICATION forming part of Letters Patent No. 611,511, dated September 27, 1898.

Application filed November 8, 1897. Serial No. 657,797. (No model.) Patented in England December 6, 1892, No. 22,300.

To all whom it may concern:

Be it known that I, RUPERT ROBINSON, a citizen of Great Britain, residing at Sheffield, in the county of York, England, have invented a new and useful Improvement in the Construction of Boxes, (for which I have obtained a patent in Great Britain, No. 22,300, bearing date December 6, 1892,) of which the following is a specification.

My invention relates to improvements in the means for strengthening wood boxes, and more particularly boxes to be used for bottles.

The object of my invention is to so bind the bottom and sides or ends together that it is practically impossible to separate said parts without absolutely breaking the wood to splinters. I attain this object by the insertion of wires passed through properly-prepared holes in the bottom and sides of boxes, said wires being invisible except where the ends are bent over and clenched.

The accompanying drawings illustrate a convenient manner of applying my invention to boxes for containing bottles of any kind.

Figure 1 is a perspective view of such a box. Fig. 2 is a cross-section of the same cut in the vertical plane, but in two different places; Fig. 3, a section of bottom corner; Fig. 4, a section of top corner.

In practical application of my invention I use a single length of wire for each end of the box, which is first passed through holes in the bottom boards horizontally, leaving about equal length projecting at each side, the wire being bent upward. The boards forming the sides are threaded upon the wire, and after the box has been secured together in the ordinary manner the ends of the wire are bent close down to the wood and clenched by turning and driving the points therein. Said ends may be further secured by means of small wire staples. The holes for the reception of the wire are bored by well-known means through the woodwork of the several parts constituting a box before they are put together, the said holes being made sufficiently large to allow the wire to pass through easily.

Referring to the drawings, the holes H are simultaneously bored at each end of the pieces of the wood forming the sides of box A close to or as near as may be to the dovetails of the corner-joint J, and like holes H^2 are bored in corresponding positions through the bottom boards B. All the parts having been duly prepared, the boards B to form the bottom are to be placed together. The wires W are passed through the holes H^2 and then bent upward into the slight notches R. The sides of the box A are next threaded upon the wires W, and the box being completed the projecting ends X are bent at right angles, as shown in Fig. 2, the end of the wire is turned, and the point driven into the end E of the box, where it may be further secured by a staple S.

Wire of any suitable metal or strength may be used, and it will be obvious that the sides A of the box may extend all the way to the bottom without in any way impeding the use of the wire bonds.

I am aware that prior to my invention wire bonds have been used for boxes. I therefore do not make any claim to the use of wire *per se*.

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. A box provided with strengthening-wire which is embedded in its bottom, passed vertically up through the side and fastened to the end pieces, the said wire in each instance passing through previously-prepared, continuous holes and being at all times concealed from view for the purpose set forth.

2. In a box, the combination of a bottom piece, side pieces and end pieces with two lengths of wire on opposite sides of the said box, each length being embedded longitudinally in the said bottom piece and extending up through the ends of the side pieces and having its ends embedded in the top of the end pieces, the said wire in each instance passing through previously-prepared, continuous holes and being at all times concealed from view substantially as set forth.

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

RUPERT ROBINSON.

Witnesses:

ISAAC BECK,

I. W. GREGORY.