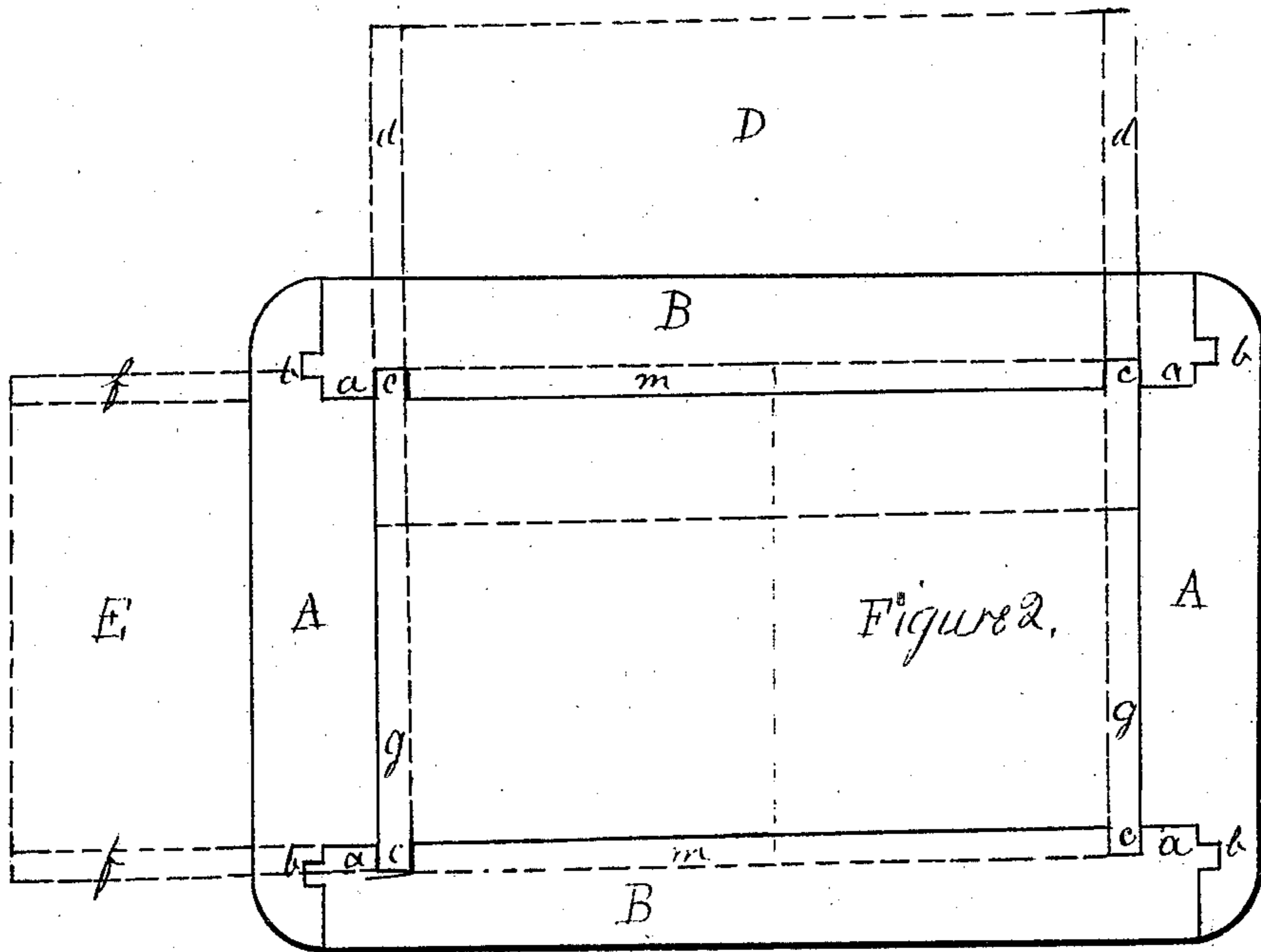
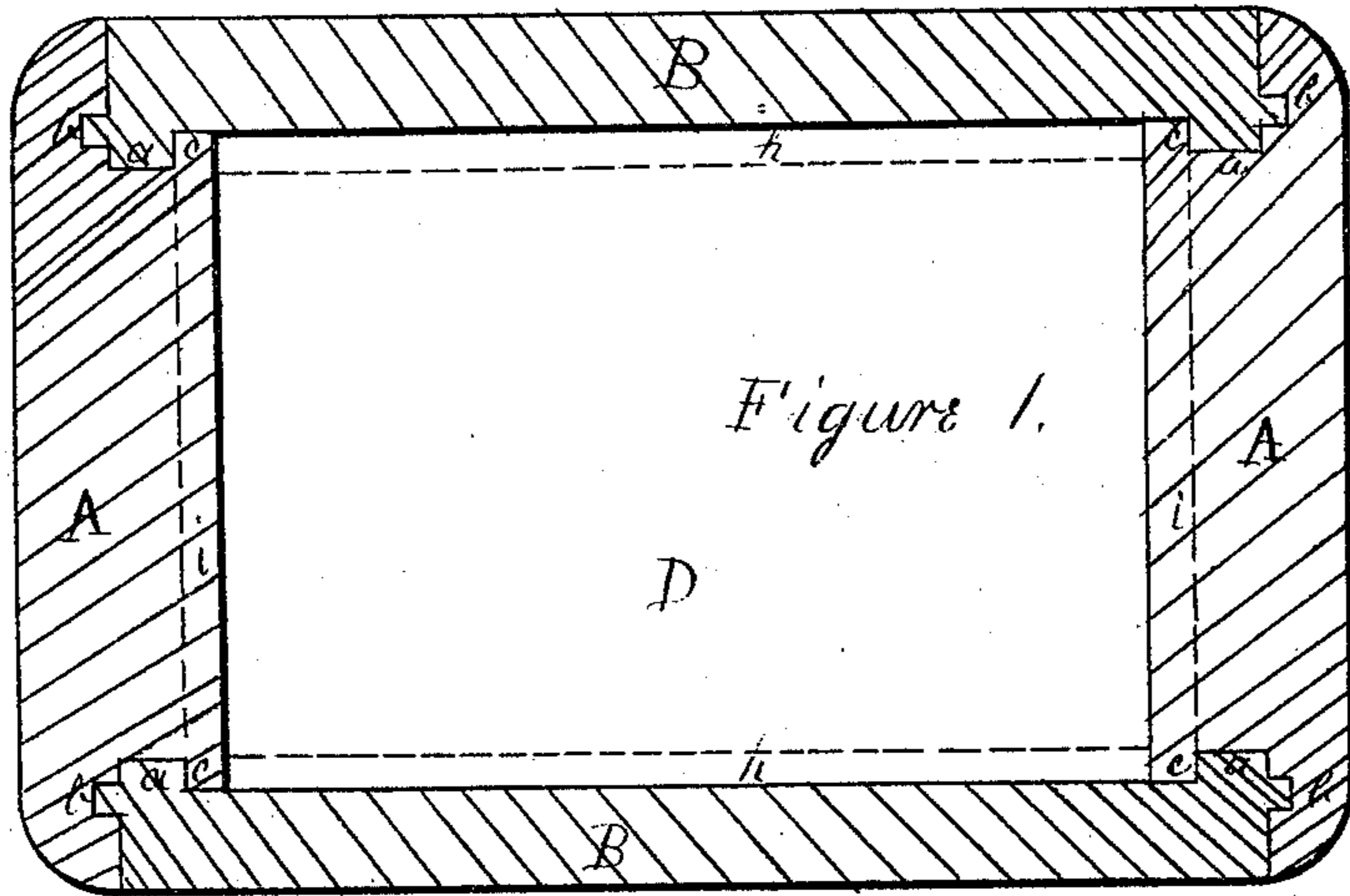


*J. Nelson,*

*Box.*

*No. 106,393.*

*Patented Aug. 16. 1870.*



*Witness { W. M. Burson.  
E. S. Burson*

*John Nelson*

# United States Patent Office.

JOHN NELSON, OF ROCKFORD, ILLINOIS.

*Letters Patent No. 106,393, dated August 16, 1870.*

## IMPROVEMENT IN BOXES.

The Schedule referred to in these Letters Patent and making part of the same

I, JOHN NELSON, of Rockford, in the county of Winnebago and State of Illinois, have invented certain Improvements in the Construction of Boxes, of which the following is a description.

Figure 1 is a plan view of a box containing my invention.

Figure 2 is the same, viewed from beneath, the dotted positions of the cover D and bottom E, showing the manner of removing and putting them in their proper places.

In the drawing—

A A are the ends;

B B, the sides, and

D E, the cover and bottom of my box.

Boxes are constructed on this plan cheaply and very expeditiously, with what is known in wood-working machinery as a tenoning-machine, and I shall therefore describe their construction with reference to such machine, stating, however, that they are readily made with hand tools.

The knives or cutters on one cutting head are of such shape as to cut the upper side of tongue *b*, leaving the elevation *a* and making the groove for tongue *c*. The other cutter finishes the other side of tongue *b*.

Piece B is passed once through these cutters, and the ends, being alike, are reversed, which finishes them.

The pieces A A require but on one cutter-head, the knives cutting down the end and making the groove for *b*, and a "coping" cutter making the groove for *a*.

For putting in the bottom and top pieces, D E,

pieces A A may be rabbeted on their corresponding inner edges, and grooved on the others, as also pieces B B; but in all cases the grooves must be on opposite sides or edges of A and B, when put together, so that, when the piece D can be put in the grooves of A A on one side of the box, the piece E can be put in on the other side, in the grooves of B B, the top and bottom pieces always moving at right angles to each other.

The edges of A and B must always pass each other at least the thickness of the bottom and top pieces while the latter are being put in.

The corners may be prevented from slipping by a screw, nail, or gluing.

If desired to be taken apart and shipped empty, a screw should be used, which may be taken out and the boxes taken apart and packed closely, and may be put together again very easily, thereby effecting an important saving in many cases. A single corner sealed would secure the box from being opened without detection.

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

A box, constructed as herein shown and described, as an article of manufacture.

JOHN NELSON.

Witnesses:

W. W. BURSON,

E. S. BURSON.