

No. 692,909.

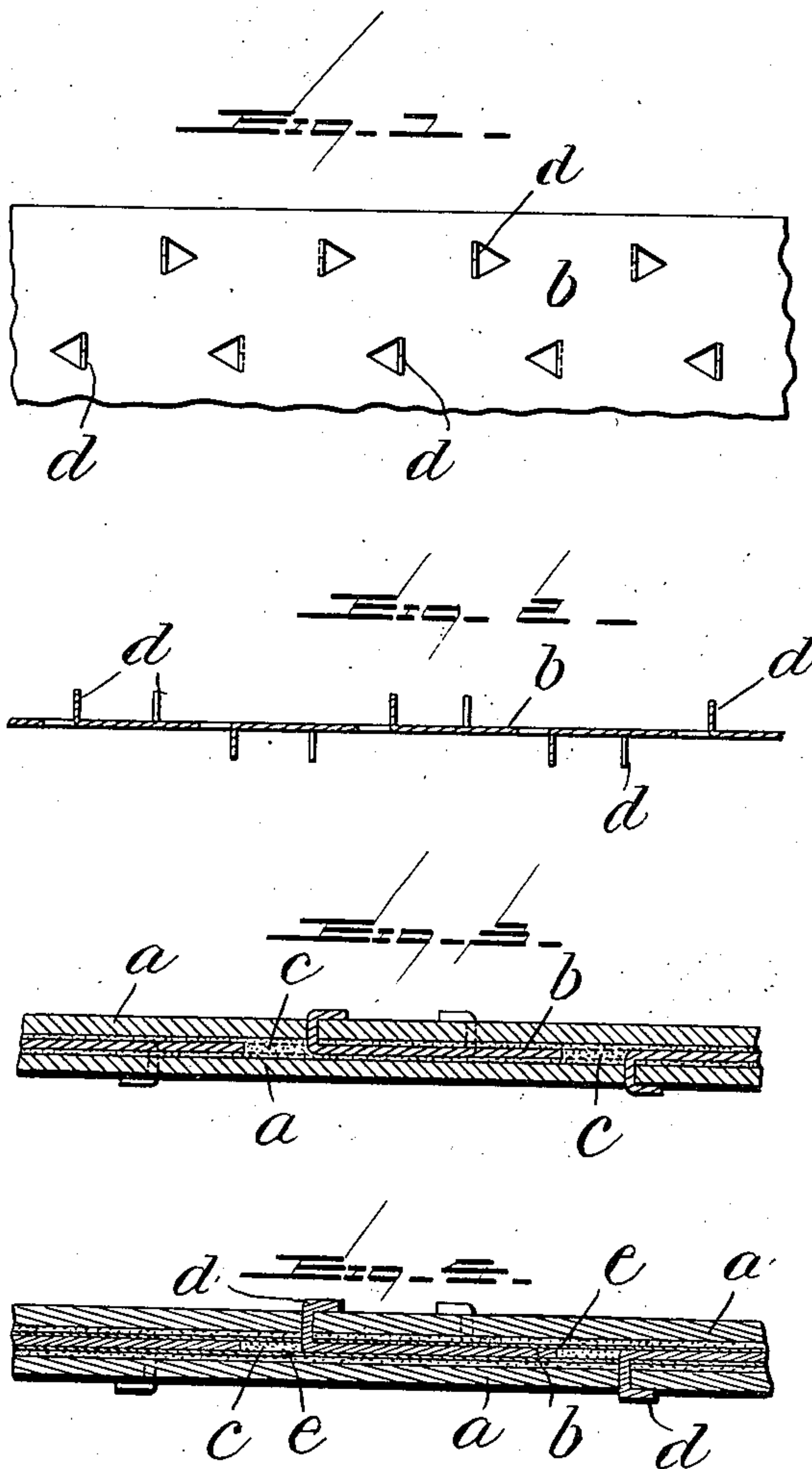
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J. C. ROBERTS.

VENEER FOR USE IN THE MANUFACTURE OF BOXES, &c.

(Application filed Mar. 11, 1901.)

(No Model.)



Witnesses.

Wm. F. Doyle.

Bluford W. Brockett.

John C. Roberts Inventor.
J. H. Parker Atty.

UNITED STATES PATENT OFFICE.

JOHN CORYTON ROBERTS, OF LONDON, ENGLAND.

VENEER FOR USE IN THE MANUFACTURE OF BOXES, &c.

SPECIFICATION forming part of Letters Patent No. 692,909, dated February 11, 1902.

Application filed March 11, 1901. Serial No. 50,722. (No model.)

To all whom it may concern:

Be it known that I, JOHN CORYTON ROBERTS, a subject of the King of Great Britain, residing at 26 Russell road, West Kensington, London, England, have invented certain new and useful Improvements in Veneers for Use in the Manufacture of Boxes and for other Purposes, of which the following is a specification.

My invention consists of the novel features hereinafter described, reference being had to the accompanying drawings, which illustrate one form in which I have contemplated embodying my invention, and said invention is fully disclosed in the following description and claims.

The object of my invention is to strengthen veneers, so as to prevent them from so readily breaking, as is now the case, and also to permit them to be bent into any desirable form or shape.

According to my invention I introduce between sheets of veneer a layer of strengthening fabric, (which may consist of wire-netting, sheet metal, or other suitable material,) said strengthening fabric being provided with pins, points, or projections, which are adapted under suitable pressure to penetrate the veneers, and which points may be clenched upon the outer sides of the veneers. A layer (or layers) of suitable cement is also introduced between the veneers with the strengthening fabric, so as to form the whole into a compact mass.

In the accompanying drawings, Figure 1 represents a plan view of a piece of sheet metal provided with projections or teeth for use as the strengthening layer. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a transverse section, drawn to an exaggerated scale, of a piece of veneer boarding comprising two sheets of veneer with an intermediate strengthening layer, such as is shown in Figs. 1 and 2. Fig. 4 is a similar view of a slight modification.

In the drawings, *a a* are the sheets of veneer, and *b* represents the strengthening layer consisting in this instance of sheet metal, provided with struck-up points or projections *d*, as clearly shown in Figs. 1 and 2, projecting from both faces of the sheet. The strengthening layer *b*, placed between two

sheets of the veneer *a*, and a suitable cement (indicated at *c*) are used to hold the whole together to form an integral boarding. The teeth or projections *d* are forced into the veneers on opposite sides of the strengthening layer, and may be clenched, as shown in Fig. 3.

In some cases I introduce a layer of paper or cloth between each or either side of the strengthening layer and the adjacent veneer, the whole being held together by the cement in which the strengthening layer is embedded. This construction is shown in Fig. 4, in which *c* represents the layers of cloth or paper.

The cement which I employ is of any suitable kind—such, for example, as that usually used with the manufacture of compressed wood or veneer boarding.

By constructing veneer boarding in the manner above described I am enabled by employing veneers the grain of which runs in the same direction to make boarding of relatively great length, the said boarding being very pliable, so that it can be corrugated or bent to a considerable extent without tending to crack. Such boarding is useful for many purposes—for example, for the manufacturing of boxes or the building of boats or for ships' decks, &c.—and owing to its pliability or elasticity possesses great strength, as it would tend to yield under a blow, thus avoiding rupture.

Although I have described and shown the veneer boarding as composed of two layers of veneers, it will be clear that I may employ three or any suitable number of veneers.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

1. A veneer boarding comprising a pair of veneers and a metallic strengthening layer between them, provided with projections penetrating the veneers, substantially as described.

2. A veneer boarding comprising a pair of veneers, and a metallic strengthening layer between them, provided with teeth extending through and clenched upon the outer faces of the veneers, substantially as described.

3. A veneer boarding comprising a pair of veneers and a strengthening layer of sheet

metal between them provided with integral teeth extending into the veneers, substantially as described.

4. A veneer boarding comprising sheets of
5 veneers a metallic strengthening layer interposed between them and provided with projections penetrating the veneers, and a layer

of flexible fabric interposed between the metallic strengthening layer, and the adjacent veneer, substantially as described.

JOHN CORYTON ROBERTS.

Witnesses:

JOHN E. BOUSFIELD,
C. G. REDFERN.