

(No Model.)

D. E. POWERS.

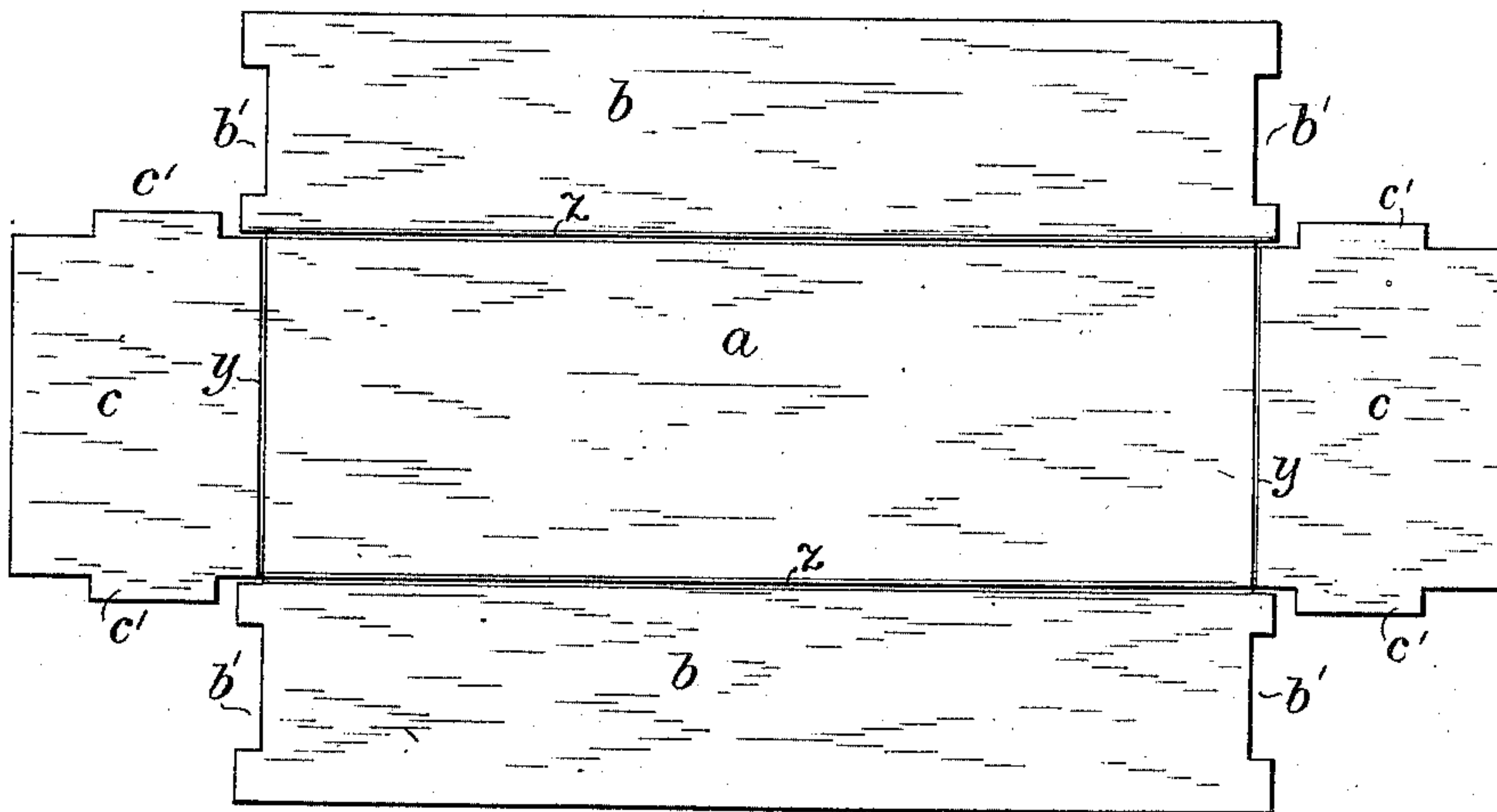
PAPER BOX.

No. 324,588.

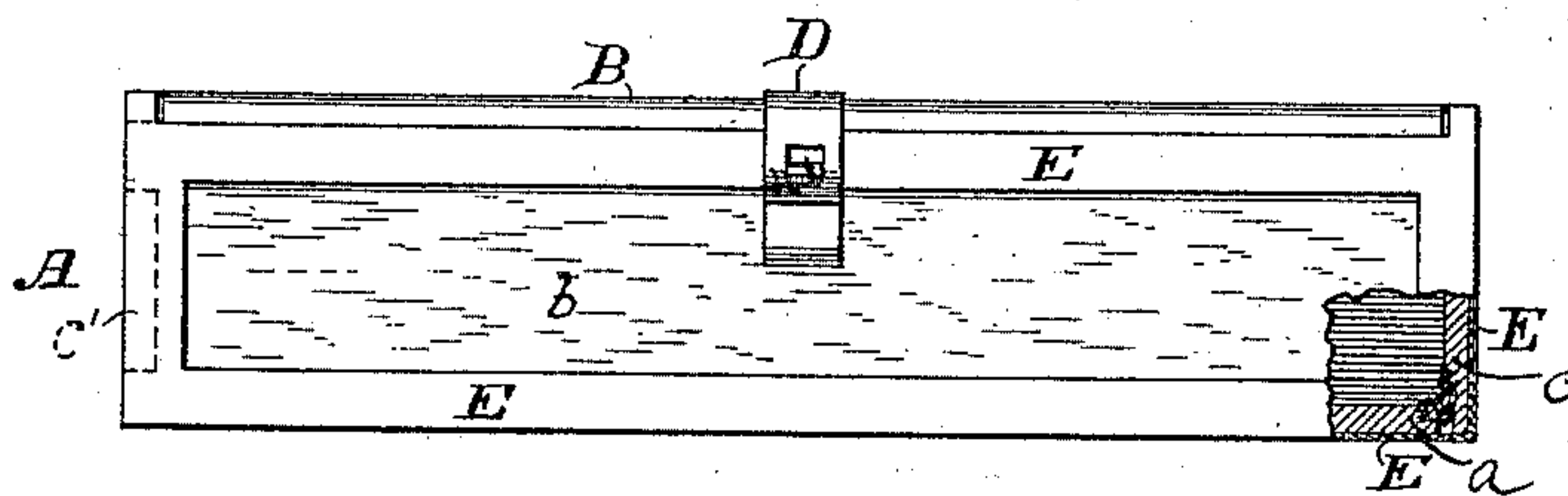
Patented Aug. 18, 1885.

*Fig. 1.*

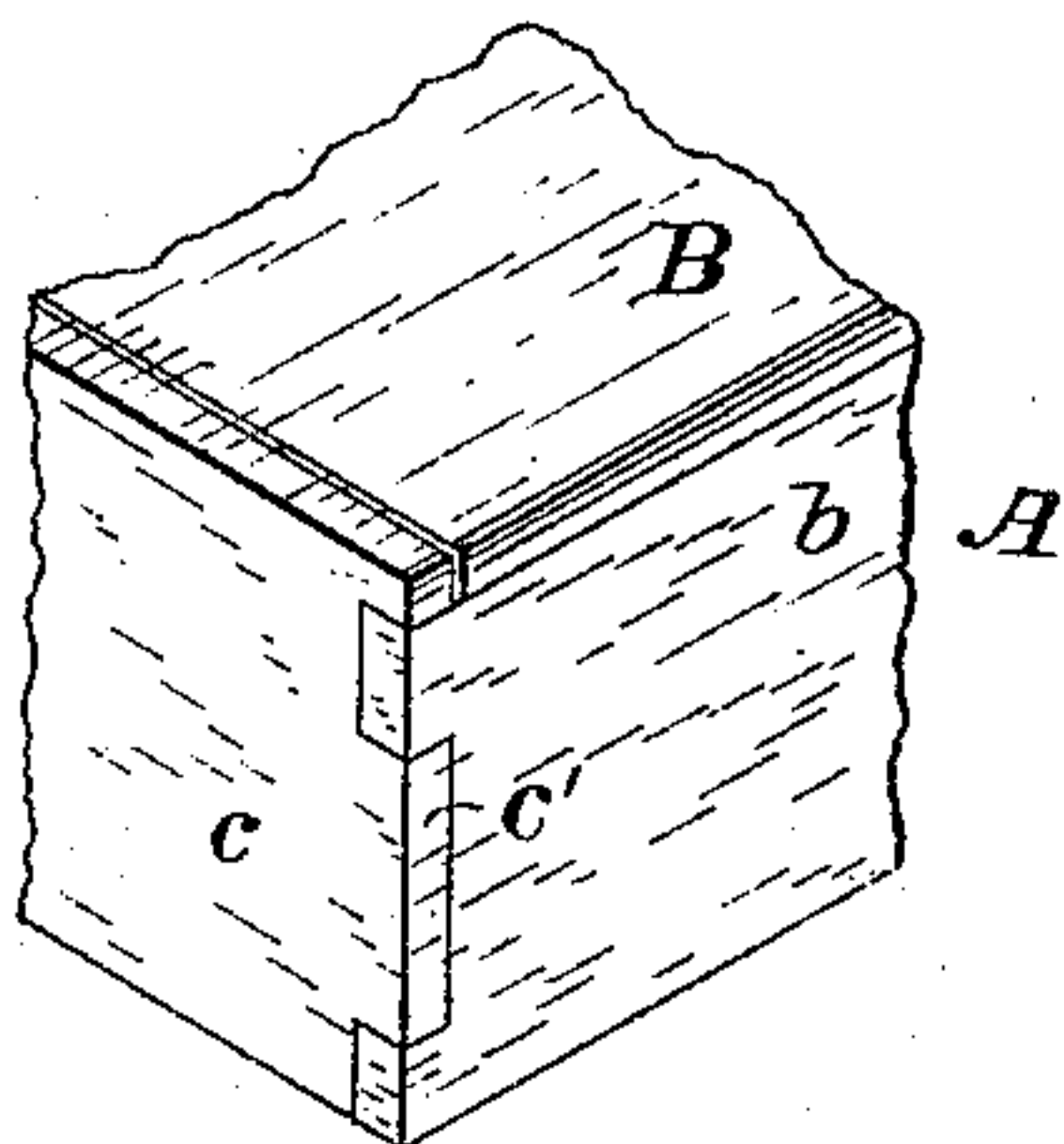
*A*



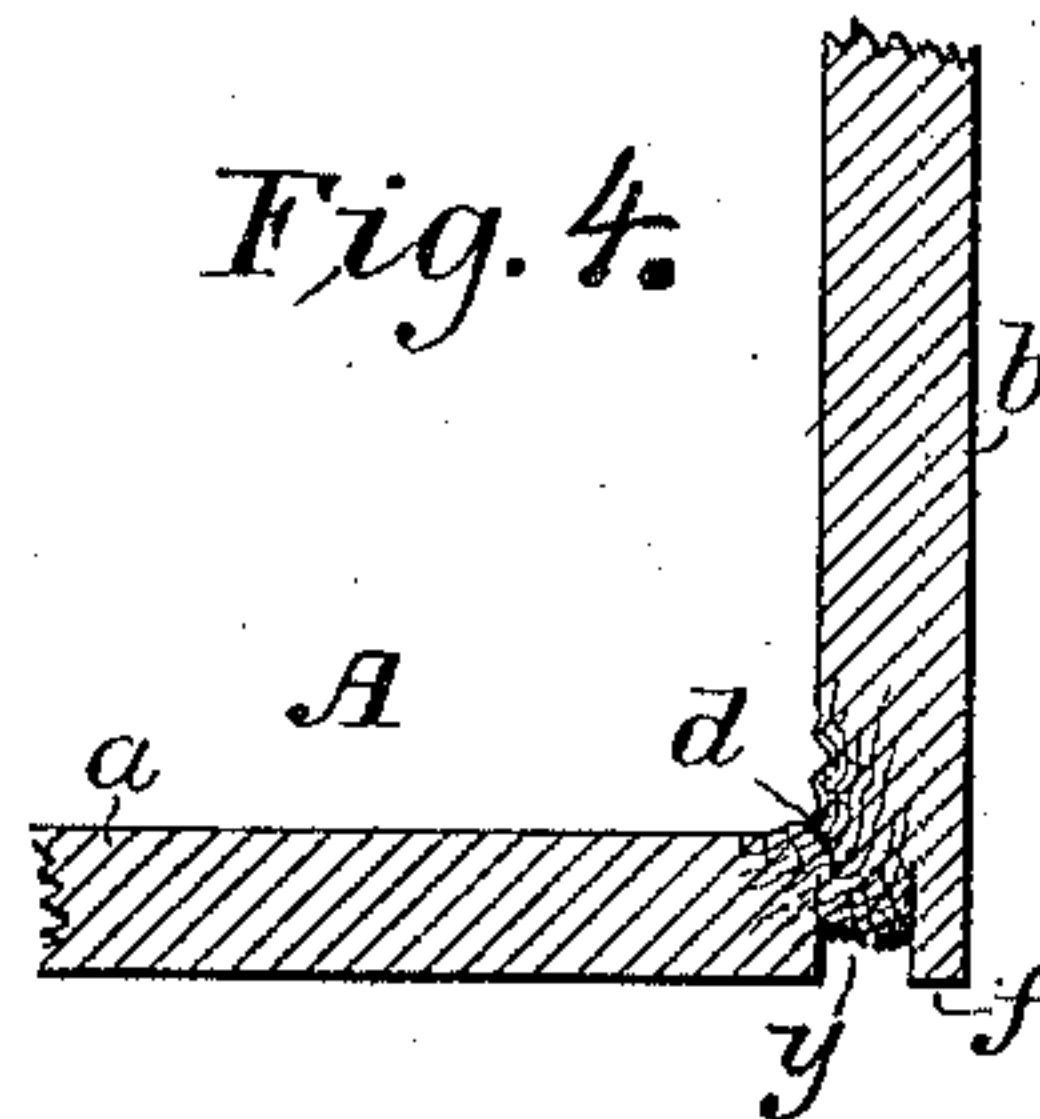
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses

*Jos. S. Latimer*  
*N. L. Callamer*

Inventor:

*Daniel E. Powers*

By his Attorney

*J. C. Somes*

# UNITED STATES PATENT OFFICE.

DANIEL E. POWERS, OF NEW YORK, N. Y., ASSIGNOR, BY MESNE ASSIGNMENTS,  
TO THE PATENT PAPER CIGAR BOX COMPANY, OF SAME PLACE.

## PAPER BOX.

SPECIFICATION forming part of Letters Patent No. 324,588, dated August 18, 1885.

Application filed December 29, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, DANIEL E. POWERS, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Paper Boxes, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to paper boxes the sides and bottom of which are in one piece.

The object of the invention is to provide a box of this character of uniform thickness of material which will be strong, cheap, and durable.

15 In the accompanying drawings, Figure 1 is a plan view of the under side of a blank from which the body of this improved box is constructed. Fig. 2 is a front elevation of this improved box, the dovetail joint being indicated at one end by dotted lines and a portion of one corner at the opposite end being broken away. Fig. 3 is a perspective view of a corner section of this improved box, wherein the material is upset at the angles of the sides and ends with the bottom thereof, whereby said bottom is made flush with the lower edges of the sides and ends. Fig. 4 is a transverse section, on an enlarged scale, of a segment of this improved box, showing the upsetting of the connecting-web between a side or end and the bottom of the box.

Similar letters of reference indicate corresponding parts in the different figures.

35 A represents the blank for the body of the box, and B the lid. The blank A is composed of thick straw-board or board composed of other suitable paper-stock, and comprises a bottom section, *a*, side flaps, *b*, and end flaps, *c c*. The side flaps, *b b*, are partially severed by means of longitudinal scores *z z* from the bottom section, *a*, to which they remain attached by means of the connecting-web *d*. These scores are cut or impressed in the blank at points distant from the side edges thereof equal to the interior depth, or nearly so, of the box to be formed. The end

flaps, *c c*, are partially severed by means of transverse scores *y y* from the bottom section, *a*, to which they remain attached, said transverse scores connecting the outer ends of the longitudinal scores. The side flaps, *b b*, are provided at their ends with recesses *b'*, the inner faces of said recesses being in line with the transverse scores *y y*, and the end flaps, *c c*, are provided with tenons *c'*, which project laterally from the side edges of said flaps, said side edges being in line with the longitudinal scores *z z*.

60 In forming the box from the blank thus described the side flaps, *b b*, and the end flaps, *c c*, are folded at right angles to the bottom *a* on the lines of the longitudinal and transverse scores, and the tenons *c'* of the end flaps, *c*, fit in the recesses *b'* of the side flaps, *b*. When it is desired that the bottom be flush with the lower edges of the sides and ends, to form square corners therewith, pressure is exerted upon the outer edges of the side and end flaps during the process of folding, whereby the unsevered material at the angles is upset and the severed portion *f* of the side and end flaps pressed down flush with the under surface of the bottom section.

75 If desired that the cover shut between the ends flush with the upper edges thereof, the end flaps, *c*, are the thickness of the board deeper than the side flaps.

The blank thus folded and upset is properly cemented or pasted at the corners and covered with a layer, E, of paper, which hides the joints and assists in stiffening the box.

80 Any suitable cover may be used for the body thus formed; but when the box is to be used for cigars the cover is preferably attached at the rear edge by means of a flexible cloth or, other suitable hinge at the rear side of the box, and a suitable catch or fastening device, D, is attached to the front edge of the lid and front side of the box.

85 When used for cigars, the paper-board is preferably ornamented in imitation of cedar-wood.

90 The box thus constructed is strong, cheap, and durable.



I claim as my invention—

A box-body the sides and ends of which are integral with its bottom, being partially severed therefrom, the connecting-web of  
5 material being upset, whereby square corners are formed, said sides and ends being interlocked by recesses and tenons, substantially as described.

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

DANIEL E. POWERS.

Witnesses:

JOHN C. MARSHALL,  
MARY V. B. CHASE.