No. 611,423. Patented Sept. 27, 1898.

T. S. USHER.

BOX HINGE.

(Application filed Oct. 22, 1897.)

(No Model.)

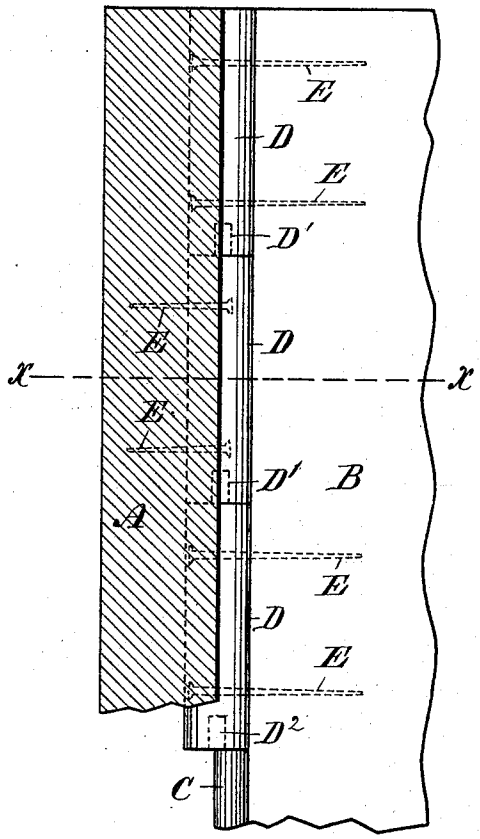


Fig. 1.

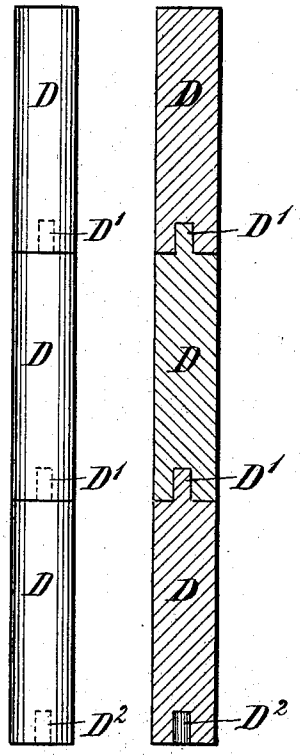


Fig. 3.

Fig. 4.

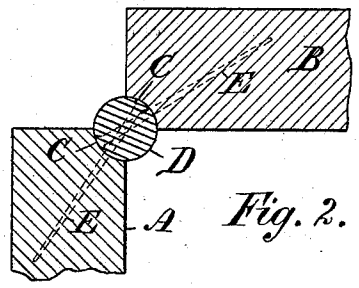


Fig. 2.

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UNITED STATES PATENT OFFICE.

THOMAS STOKOE USHER, OF BRANTFORD, CANADA.

BOX-HINGE.

SPECIFICATION forming part of Letters Patent No. 611,423, dated September 27, 1898.

Application filed October 22, 1897. Serial No. 656,001. (No model.)

To all whom it may concern:

Be it known that I, THOMAS STOKOE USHER, of Brantford, in the county of Brant, in the Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in Wooden Hinge-Joints; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is an elevation of my hinge-joint applied to a door or lid. Fig. 2 is a section of the same on line *x x*. Fig. 3 is an elevation of the hinge sections or cylinders detached from the door or lid, and Fig. 4 is a longitudinal section of the same.

My invention has for its object to make a pintleless hinge-joint adapted for knock-down boxes, collapsible crates, doors, chests, and other wooden structures, which joint may be applied in a continuous manner to the entire length of the parts to be hinged.

My invention consists of a hinge-joint made up of cylinders of wood having a connecting protuberance or pin at one end and a corresponding indentation or hole at the other end, said cylinders placed end to end, whereby the protuberance at one end will enter the indentation of the next cylinder, said cylinders nailed to a jamb and door or to a box and lid alternately, the meeting angles of said door and jamb or box or lid provided with a rounded groove to seat the cylinders placed therein previous to nailing.

A represents a portion of a box or a door-jamb, and B the lid or door, the meeting angles thereof provided with a rounded straight groove C.

D D are a series of wooden cylinders having a protuberance or pin D′ at one end and an indentation or hole D^2 at the other end to join the cylinders axially or endwise when placed in said grooves and alternately secured by nails E or glued to a door and a jamb or to a box and its lid, so that the cylinders will be free to move frictionally on the axis formed by the pins D′ and holes D^2, whereby the door, lid, &c., can be opened and closed as by an ordinary metallic hinge, said cylinders, if desired, forming a continuous hinge from the bottom to the top of the door or along the whole length of the lid or other joint.

I claim as my invention—

A hinge-joint comprising a series of cylinders connected pivotally at the ends and fastened alternately to the parts to be hinged, as set forth.

THOMAS STOKOE USHER.

Witnesses:
E. SWEET,
C. THOMAS.