No. 711,968. Patented Oct. 28, 1902

D. L. HILL.

BOX HINGE.

(Application filed May 18, 1901.)

(No Model.)

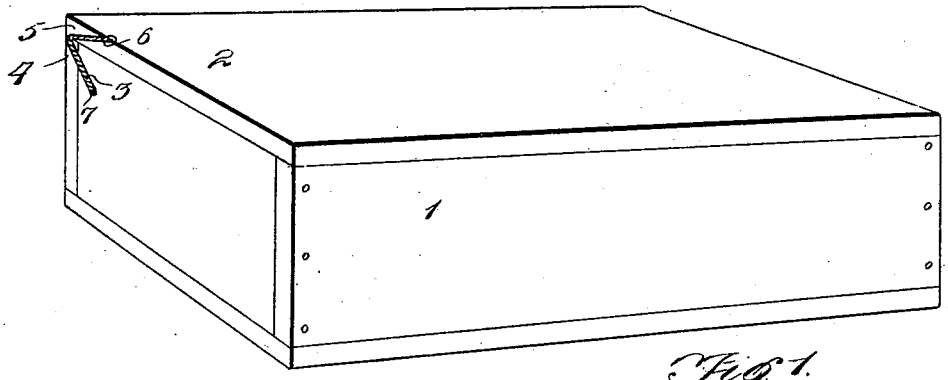


Fig. 1.

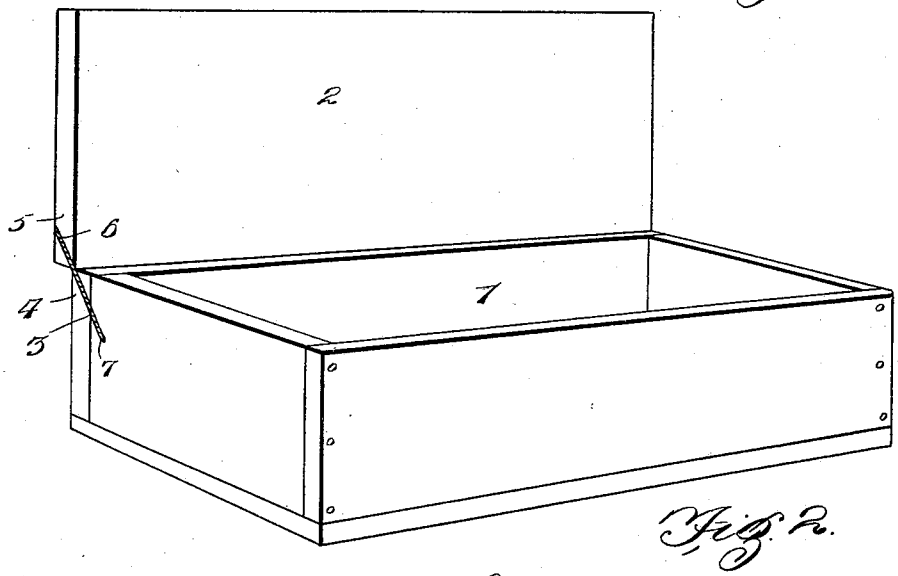


Fig. 2.

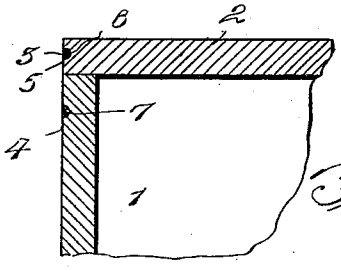


Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

DAN L. HILL, OF KEENE, NEW HAMPSHIRE.

BOX-HINGE.

SPECIFICATION forming part of Letters Patent No. 711,968, dated October 28, 1902.

Application filed May 18, 1901. Serial No. 60,911. (No model.)

To all whom it may concern:

Be it known that I, DAN L. HILL, a citizen of the United States, residing at Keene, in the county of Cheshire and State of New Hampshire, have invented a new and useful Box-Hinge, of which the following is a specification.

This invention relates to box-hinges; and the object of the same is to provide a simple and effective flexible hinge which is applied without screws or other usual fastenings and is formed from a suitable length of cord, twine, or the like, which is crowded into adjacent portions of the ends of the box-body and lid or cover and firmly held in place against accidental disengagement.

The invention consists in the construction and arrangement of the several parts, which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of a box having the lid or cover closed downwardly thereon and showing the hinge embodying the features of the invention at one end. Fig. 2 is a similar view with the lid or cover of the box shown open. Fig. 3 is a section on the line 3 3, Fig. 1.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

The numeral 1 designates a box having a lid or cover, the said parts being of any suitable dimensions and constructed of thin or thick material. The hinge is composed of a suitable length 3 of cord, twine, or the like, which is let into the upper rear end portion 4 of the box and the adjacent rear corner portion 5 of the lid or cover 2. It will be understood that the hinge is applied to each end of the box, and the said portions 4 and 5, respectively, of the box and lid or cover are formed with obliquely-arranged slots 6 and 7, which are alined when the lid or cover is opened and of such depth that when the cord, twine, or the like is inserted therein the latter will be flush with said portions 4 and 5. There are numerous methods of forming the slots 6 and 7, and they may be constructed either manually or by machinery, the preferred method being to arrange the box and lid or cover in such relation that a saw or analogous implement may be run thereacross to produce a kerf or groove of a dimension corresponding to that of the length of cord or the like. Before the length of cord or the like is inserted in the slot, groove, or kerf it has a suitable adhesive substance, such as glue or cement, applied thereto, so that it will be permanently retained in place.

The improved hinge is simple and effective in its application and will form a strong and durable hinge that can be quickly applied without the use of fastening devices, and thus avoid mutilation of the box and lid or cover. The use of the improved hinge also avoids projecting hinge parts as are found in ordinary hinge constructions, and the thickness of the cord length will depend solely on the weight of the lid or cover to be supported thereby. When the lid or cover is closed down, it will dispose its slot, groove, or kerf and the portion of the cord therein at an angle to the similar devices in the box end, so that a strain is not continually exerted on the flexible hinge. Moreover, the cord, twine, or the like is of such length that it will not buckle or bulge when the lid or cover is closed, enough slack being provided in the first instance to such an extent as to permit the lid or cover to be opened and closed without the least obstruction.

Having thus described the invention, what is claimed as new is—

1. The combination with a box and a cover having their ends provided with grooves, of flexible hinges let into the grooves.

2. The combination of a box and a cover having grooves in the contiguous rear end portions thereof, and lengths of cord or the like inserted in said grooves to form flexible hinges.

3. The combination of a box and a cover having grooves in the contiguous rear end portions thereof, and lengths of cord or the like having adhesive material applied thereto and inserted in the said grooves to form flexible hinges.

4. A box and cover having its edges in juxtaposition and grooves crossing the edges, and flexible hinges seated in the grooves.

5. A box and cover having obliquely-disposed grooves, and flexible hinges let into the grooves.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

DAN L. HILL.

Witnesses:
L. W. HOLMES,
EARL G. B. HILL.