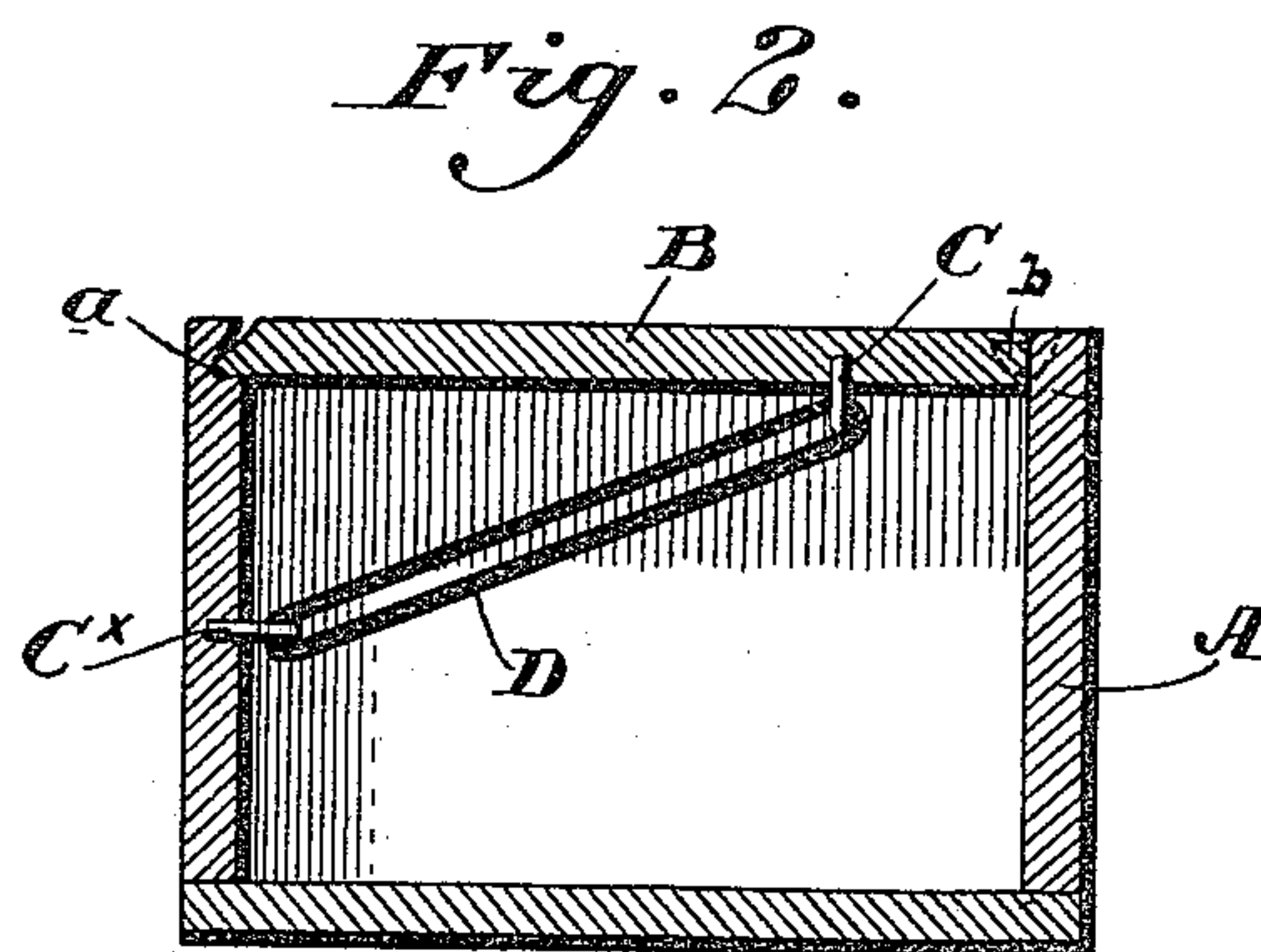
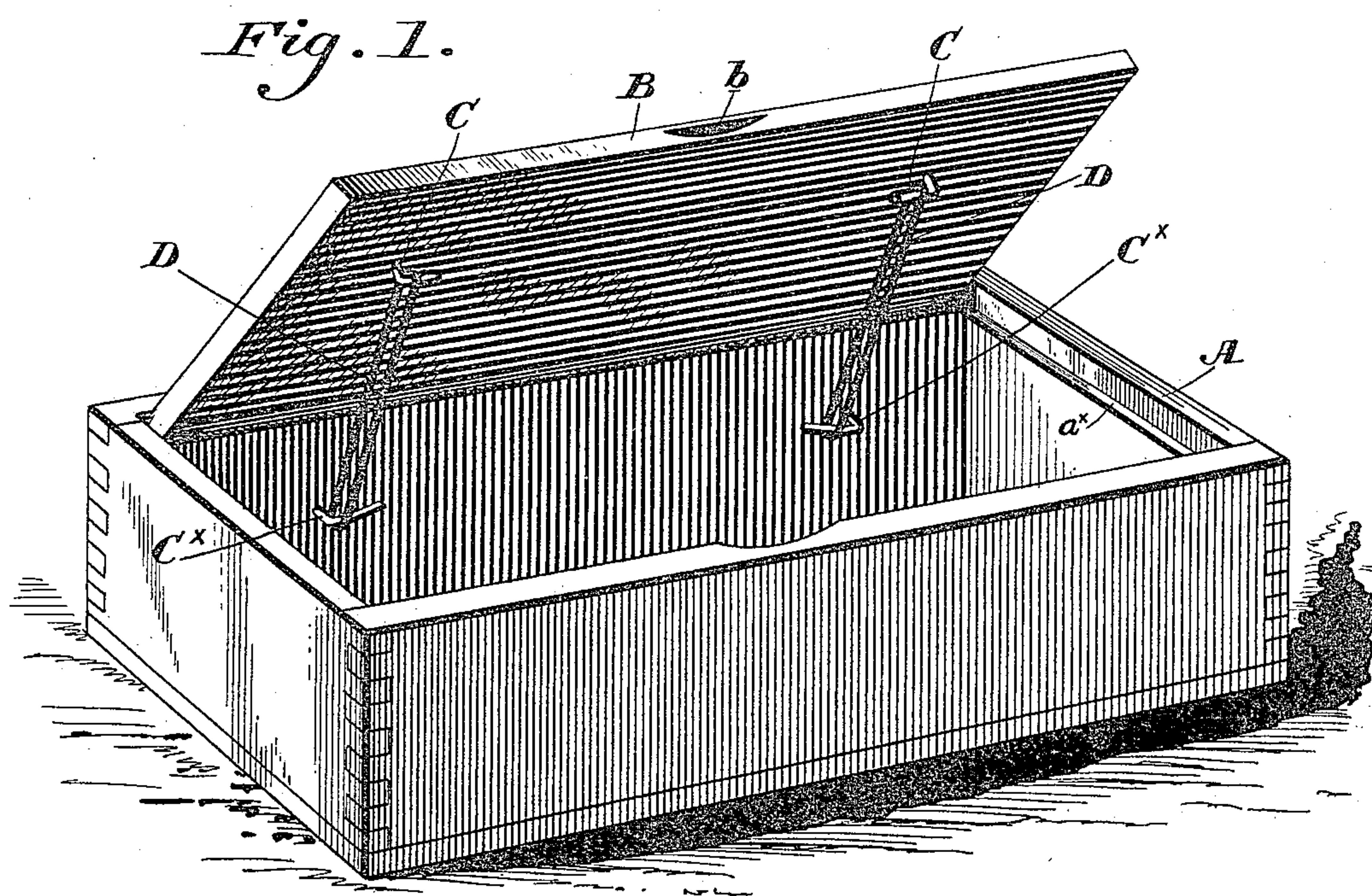


(No Model.)

I. FOX.
BOX.

No. 440,147.

Patented Nov. 11, 1890.



Ivan Fox.

WITNESSES:

P. H. Chagles.

J. Norman Dixon

INVENTOR:

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UNITED STATES PATENT OFFICE.

IVAN FOX, OF PHILADELPHIA, PENNSYLVANIA.

BOX.

SPECIFICATION forming part of Letters Patent No. 440,147, dated November 11, 1890.

Application filed March 15, 1890. Serial No. 344,047. (No model.)

To all whom it may concern:

Be it known that I, IVAN FOX, a citizen of the United States, residing in the city and county of Philadelphia, and State of Pennsylvania, have invented certain new and useful Improvements in Boxes, of which the following is a specification.

My invention relates to boxes which are provided with lids hinged to them, in contradistinction to boxes the lids of which slide in grooves, and it is the object of my invention to produce a simple, neat, and inexpensive box the lid of which is in effect hinged, but in the construction of which I dispense with ordinary hinges or pivot pins, and substitute therefor continuous rubber bands or their equivalent.

In the accompanying drawings, I have shown and in this specification I describe, a good form of a convenient embodiment of my invention, the particular subject matter claimed as novel being hereinafter definitely specified.

In the accompanying drawings, Figure 1 is a view in perspective of a box embodying my invention, the lid being represented as lifted. Fig. 2 is a central transverse sectional view through the box of Fig. 1, with the lid closed.

Similar letters of reference indicate corresponding parts.

In the drawings, A is a box, which may be of any usual form, construction, or material. In the upper inside edge of one of the sides of this box is formed a groove or channel, *a*, for a purpose hereinafter explained, and in the upper inside edges of both of the ends of the box, are formed ledges or lid rests *a*^x.

B is the lid of the box, which on its front edge is preferably provided with a thumb notch *b*, by means of which it can be easily raised, and the rear edge of which is, as shown in Fig. 2, beveled or otherwise suitably conformed to fit within the groove or channel *a* of the box.

C C are retaining pins, cleats, hooks, or keepers, driven into, or otherwise fastened to, the under side of the lid of the box, and any suitable number of which may at suitable distances from each other be employed.

Into the inner face of that side of the box which contains the groove or channel, *a*, I similarly apply pins or keepers C^x C^x corre-

sponding in number and disposition to the pins or keepers in the lid. Keepers of the form shown in the drawings conveniently answer my purpose, but keepers of other forms may be employed.

D D are gum bands, engaged with and stretched taut between corresponding keepers of the lid and box body, and serving to effect the hinging of the lid to the body.

I do not restrict myself to gum or other elastic bands, but contemplate using also spiral springs.

The lid is intended to fit within the walls of the box and when down the lid rests upon *a*^x being as to its upper surface, flush with the upper edges of the box walls.

From the foregoing description it will be manifest that when the lid is opened its beveled rear edge will freely turn within the groove or channel *a*, the rubber bands being stretched, and that when closed it will be held in place by said bands. In whatever position, therefore, the box is placed, the lid when closed will be held tightly to its seat.

Having thus described my invention, I claim:

1. As an article of manufacture, a box, the lid of which is detachably hinged to the body through the intervention of rubber bands engaged with an interior face of the box and with the inner face of the lid at a fixed point approximately midway between its front and back edges, substantially as set forth.

2. As an article of manufacture, a box embodying an inwardly facing horizontal groove in the upper portion of its rear wall, and a lid adapted to said box, the rear edge of which is fitted to and free to turn within said groove, which lid is hinged to said body through the intervention of rubber bands connected with an interior face of the box and the inner face of the lid, substantially as set forth.

3. As an article of manufacture, a box embodying an inwardly facing horizontal groove in the upper portion of its rear wall, and embodying ledges upon the inner faces of its end walls,—and a lid of such size as to fit within the box and upon the ledges, the rear edge of which lid is fitted to and free to turn within said groove, said lid being hinged to said body through the intervention of rubber bands connected with an interior face of the box

and the inner face of the lid, substantially as set forth.

4. As an article of manufacture, a box embodying an inwardly facing horizontal groove 5 in the upper portion of its rear wall, and embodying ledges upon the inner faces of its end walls, and a lid of such size as to fit within the box and upon the ledges, the rear edge of which is fitted to and free to turn 10 within said groove, which lid is detachably hinged to said body through the intervention of rubber bands engaged with the interior of the box and with the inner face of the lid at 15 its front and back edges, substantially as set forth.

5. The combination to form a box, of a body in the upper edge of the back side of which

is formed a groove or channel, and which is provided with retaining pins or keepers,— 20 a lid the back edge of which is conformed to the channel in the body, which is adapted when closed to lie within the upper edges of the body and which is provided with corresponding retaining pins or keepers,—and 25 rubber bands engaged with corresponding retaining pins or keepers of both the lid and body, substantially as set forth.

In testimony that I claim the foregoing as my invention I have hereunto signed my 30 name this 26th day of February, A. D. 1890.

IVAN FOX.

In presence of—

WM. C. STRAWBRIDGE,
J. BONSALE TAYLOR.