(Model.)

H. KIRK.

HINGE FOR BOXES OR CRATES.

No. 259,318. Patented June 13, 1882.

Fig. 1.

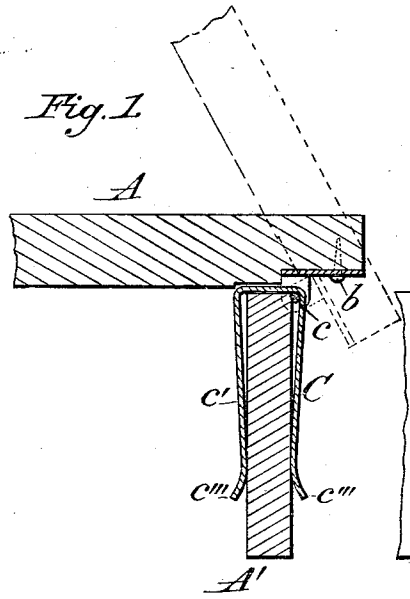


Fig. 2.

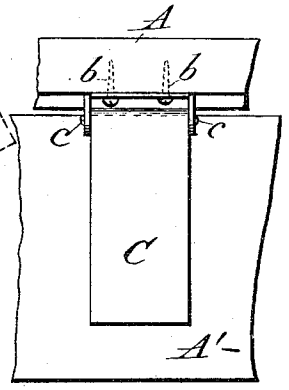


Fig. 3.

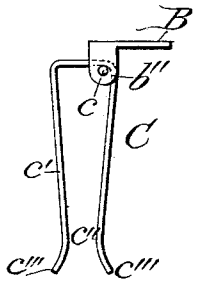


Fig. 4.

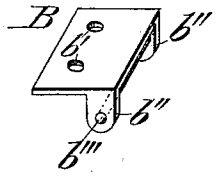
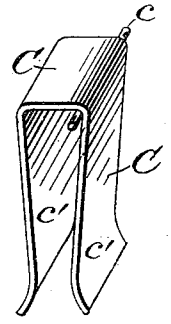


Fig. 5.



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UNITED STATES PATENT OFFICE.

HENRY KIRK, OF MINNEAPOLIS, MINNESOTA.

HINGE FOR BOXES OR CRATES.

SPECIFICATION forming part of Letters Patent No. 259,318, dated June 13, 1882.

Application filed April 25, 1882. (Model.)

To all whom it may concern:

Be it known that I, HENRY KIRK, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Hinges; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

The object of this invention is to supply to a box or crate cover a hinge that will allow of the removal of the cover from the box or crate, to be again replaced or to be put upon another box or crate of the same dimensions without the removal of screws or bolts; and it consists in the construction of the hinge, as will be fully hereinafter described.

In the drawings, Figure 1 represents in section the hinge as it is attached to the cover and side of the box. Fig. 2 represents a back view of the same. Fig. 3 represents a transverse or edge view of the hinge. Fig. 4 represents the wing part of the hinge that is secured to the lid or cover; and Fig. 5 represents the other wing of the hinge.

A represents the lid or cover of the box.

A′ represents the side of the box to which the removable part of the hinge is attached.

B is the part of the hinge that is secured to the lid or cover A by means of screws *b*, that go through holes *b′* in the metal plate from which the hinge is made.

b″ b″ are lips at or near the rear edge of wing B, and at opposite sides thereof turned down to be at right angles with the face of wing B. These lips have holes *b‴* through them to receive a pivot-pin, *c*.

C is the part of the hinge that permits the lid or cover to be removed from the box, and is formed from sheet metal, (brass being preferable,) and bent to have two legs, *c′*, to embrace the top edge of the back side of the box, as seen in Fig. 5, to be narrower between the two limbs at or near the lower ends of the limbs, as seen at *c″*. At the extreme lower ends, *c‴*, each limb will turn outward a trifle, so as to slide upon the sides of the back of the box. These limbs act as springs when so bent, as the lower ends, *c″*, being less in distance between them than the thickness of the side of the box A′, hence when this part of the hinge is forced down upon the upper edge of the box the grasp of the spring upon the sides of the back of the box is sufficient to retain the lid in place on the box unless great force is used to remove the spring part C of the hinge from the box.

At the outer angle and on the under side of that part of C that is bent over the edge of the side A′ of the box-body there is secured a pivot-pin, *c*, by solder or other secure means, the ends of which go through the holes *b‴* of lips *b″* of wing B, which pin forms the pivot upon which the two parts vibrate, and connects the two parts together.

The pivot-pin *c* can be made with a head at one end and the other end riveted or enlarged, so as to prevent the lips *b″* from leaving the pin. Such a hinge is convenient and valuable for market-men and grocers' use.

Having thus described my invention, what I claim is—

1. A hinge formed by the combination of the wing B and the spring part C, having limbs *c′ c′* and pivot-pin *c*, constructed to operate as described.

2. A hinge one wing of which is held in place upon the article to which it is attached by the force of the spring contained in the wing itself, substantially as described.

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

HENRY KIRK.

Witnesses:
ALVA H. KIRK,
HARRY AUSTIN.