(No Model.)

J. R. MORRISON.

BOX FASTENER.

No. 288,097. Patented Nov. 6, 1883.

Fig. 1.

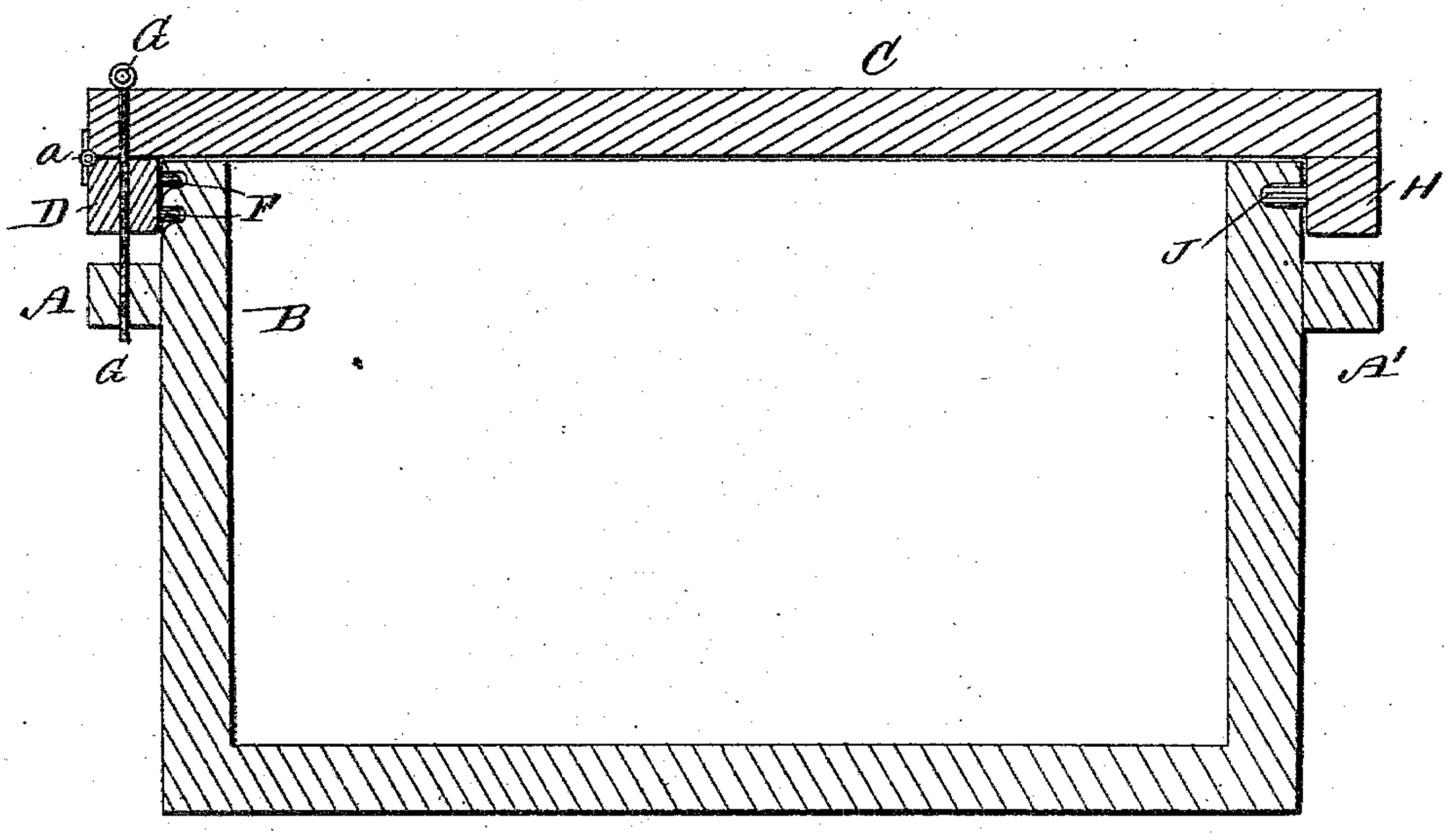
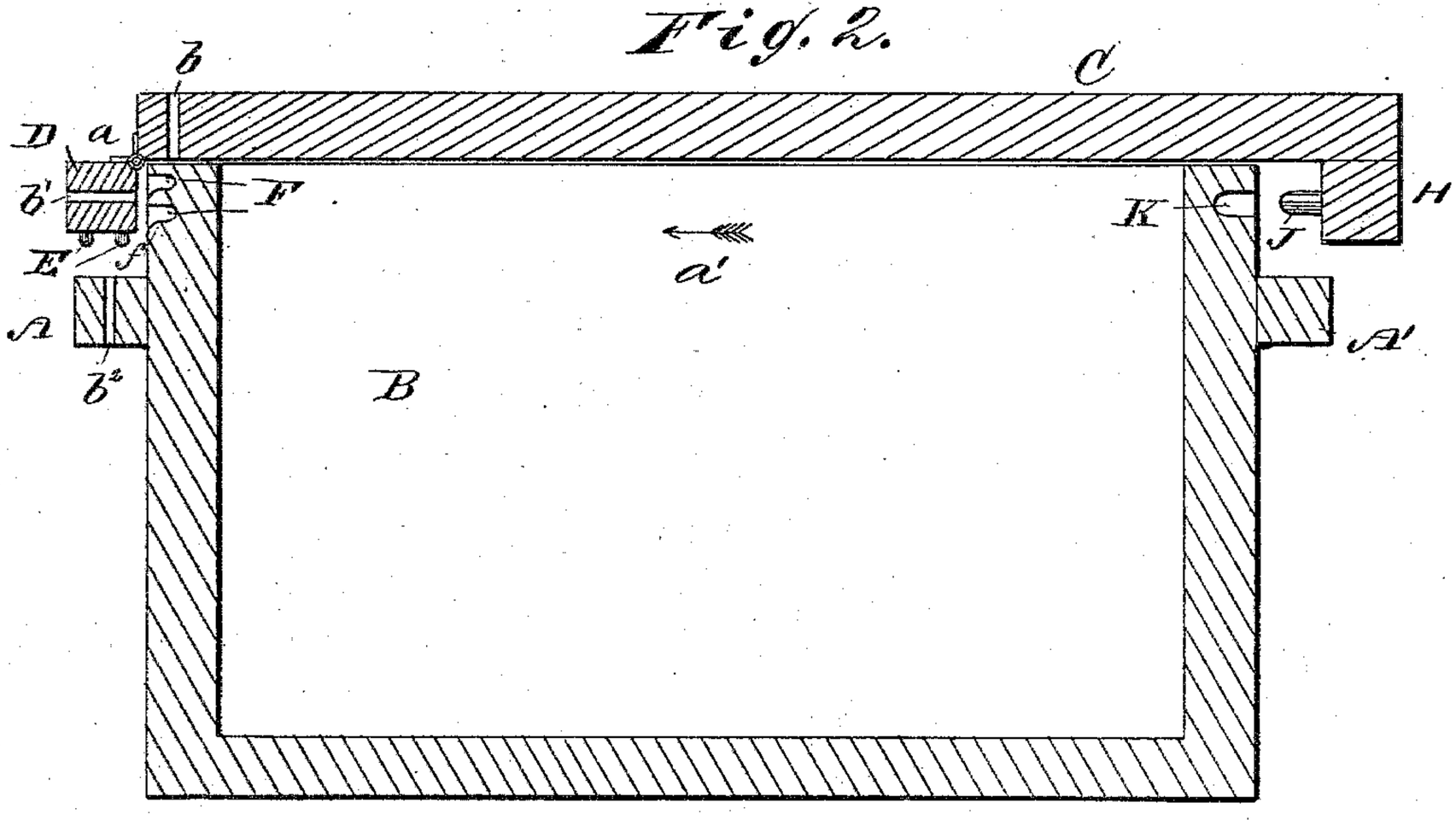


Fig. 2.



WITNESSES:

Theo. G. Hoster.

C. Sedgwick

INVENTOR:

J. R. Morrison

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES R. MORRISON, OF OAKDALE, ILLINOIS.

BOX-FASTENER.

SPECIFICATION forming part of Letters Patent No. 288,097, dated November 6, 1883.

Application filed May 12, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES R. MORRISON, of Oakdale, in the county of Washington and State of Illinois, have invented a new and Improved Fastening for the Covers of Egg-Cases, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved fastening for the covers of egg-cases or other boxes, whereby the cover can be held firmly on the box and can be removed easily and rapidly.

The invention consists in a box-cover provided on its bottom at one end with a fixed cleat having one or more pins or dowels, and at the opposite end with a hinged cleat having one or more pins or dowels, whereby the cover can be fastened by passing the dowels in the fixed cleat into apertures in one end of the box and the dowels on the hinged cleat into apertures in the other end of the box, and then locking the hinged cleat in place by means of a pin or bolt passed through the cover, the hinged cleat, and a fixed cleat on the end of the box.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a longitudinal sectional elevation of an egg-case and its cover, provided with my improved fastening, showing the cover held on the box. Fig. 2 is a like view, showing the cover released, ready to be removed.

A cleat, A, is fastened transversely on the outer surface of one end of a box or case, B, a short distance from the upper edge of the same. A like cleat, A′, is fastened on the opposite end of the box in a like position.

The cover C is made of such length that it projects beyond the ends of the box, and at one end a cleat, D, is hinged to the cover by hinges *a* in such a manner that it can be swung against the bottom of the cover, and can also be swung outward and upward.

The hinged cleat D is provided on its inner surface with one or more pins or dowels, E, adapted to be passed into corresponding apertures, F, in the outer surface of the ends of the box above the cleat A. The bottoms of the apertures F are rounded off downward and outward at the outer ends, *f*, to permit the pins or dowels E to enter the apertures F when the cleat D is swung against the end of the box. The cleat A must be a short distance below the bottom edge of the hinged cleat D, to permit swinging the latter toward or from the end of the box.

The cover C, the cleat A, and the hinged cleat D are provided with vertical apertures b b' b^2, respectively, through which a bolt or pin, G, can be passed.

On that end of the cover C opposite the one on which the cleat D is hinged a cleat, H, is fastened on the bottom of the cover, which cleat is provided on the inner side with one or more pins or dowels, J, which can be passed into apertures K in the end of the box and above the cleat A′.

If the cover is to be fastened on the box, it is placed on the same in the position shown in Fig. 2, and is moved in the direction of the arrow *a′*, whereby the pin J will pass into the aperture K. The cleat D is then swung inward and the pins or dowels E pass into the apertures F, thereby holding the cover on the box and preventing the same from being raised from the box. The pin or bolt G is then passed through the coinciding apertures, b b', b^2, for the purpose of holding the cleat D in place and preventing it from being swung outward. The cover will be held firmly on the box, and can be removed very easily and rapidly. The box is not jarred or shaken by removing or replacing the cover. A suitable lock can be provided for holding the bolt or pin G in place. The cleats A A′ are to be used as handles for carrying the box.

In case the covers are made of thin material, strengthened by cleats at the ends, this fastening may be applied upon these cleats, instead of directly upon the material of the cover, as shown.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A box-cover provided at one end with a swinging cleat, substantially as herein shown and described, and for the purpose set forth.

2. A box-cover provided at one end with a swinging cleat having pins or dowels adapted

to be passed into apertures in the end of the box, substantially as herein shown and described, and for the purpose set forth.

3. A box-cover provided at one end with a swinging cleat having pins or dowels, and at the opposite end with a fixed cleat having pins or dowels, substantially as herein shown and described, and for the purpose set forth.

4. The combination, with a box and its cover, provided with an aperture, *b*, of the cleat D, hinged on one end of the cover, and provided with pins or dowels E and aperture *b'*, the fixed cleat H at the other end of the cover, which cleat H is pivoted with a pin or dowel, J, and means for locking the hinged cleat in position, substantially as herein shown and described, and for the purpose set forth.

5. The combination, with a box, B, provided with apertures F K in the ends, and the cover C, provided with an aperture, *b*, of the cleat A, provided with an aperture, b^2, the hinged cleat D, provided with an aperture, *b'*, and the dowels E, the pin or bolt G, and the cleat H, provided with a pin or dowel, J, substantially as herein shown and described, and for the purpose set forth.

JAMES R. MORRISON.

Witnesses:

J. R. KEADY,

JOHN S. MCKEAN.