

(No Model.)

C. R. NELSON.

BOX FASTENER.

No. 321,628.

Patented July 7, 1885.

Fig. 1.

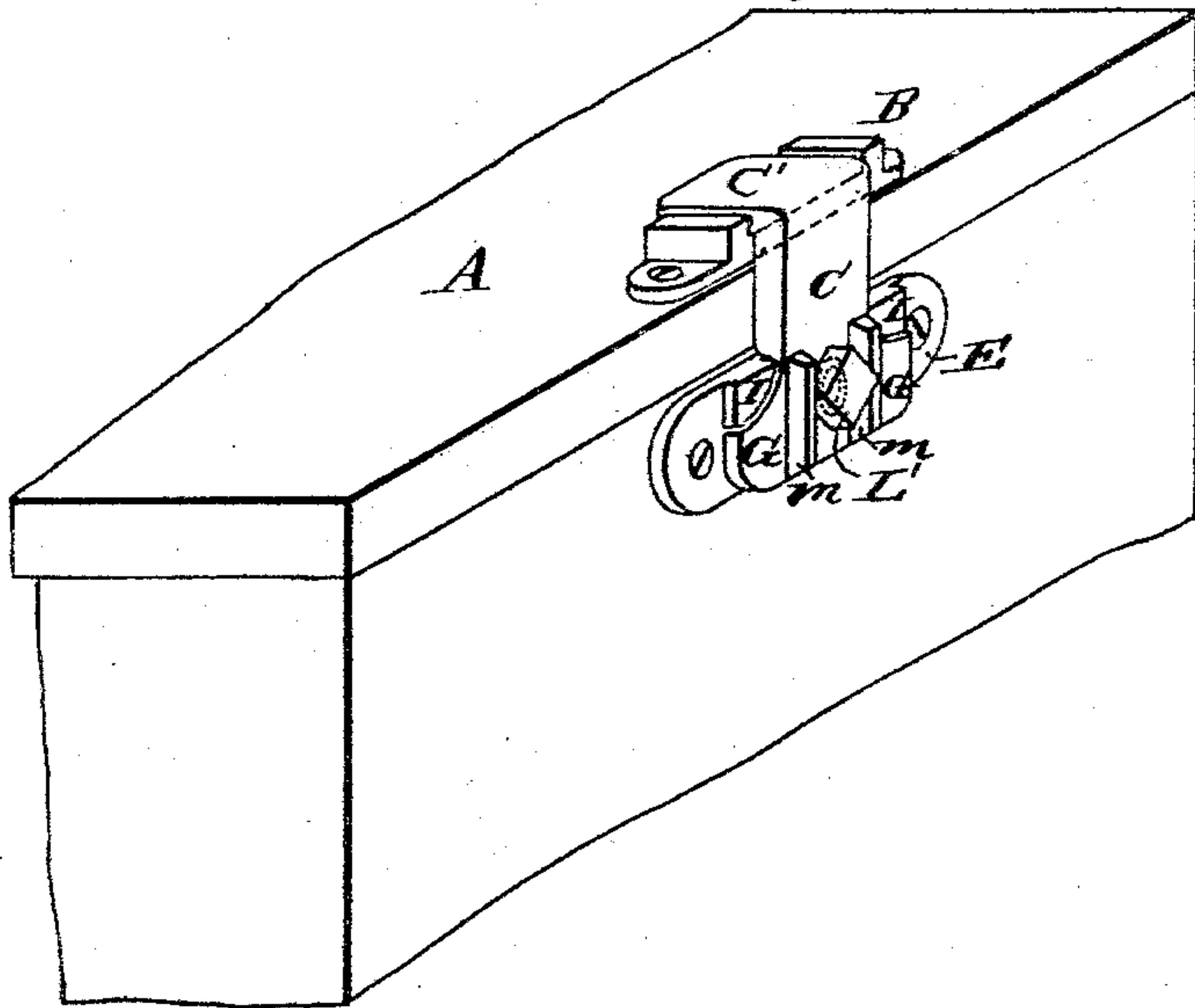
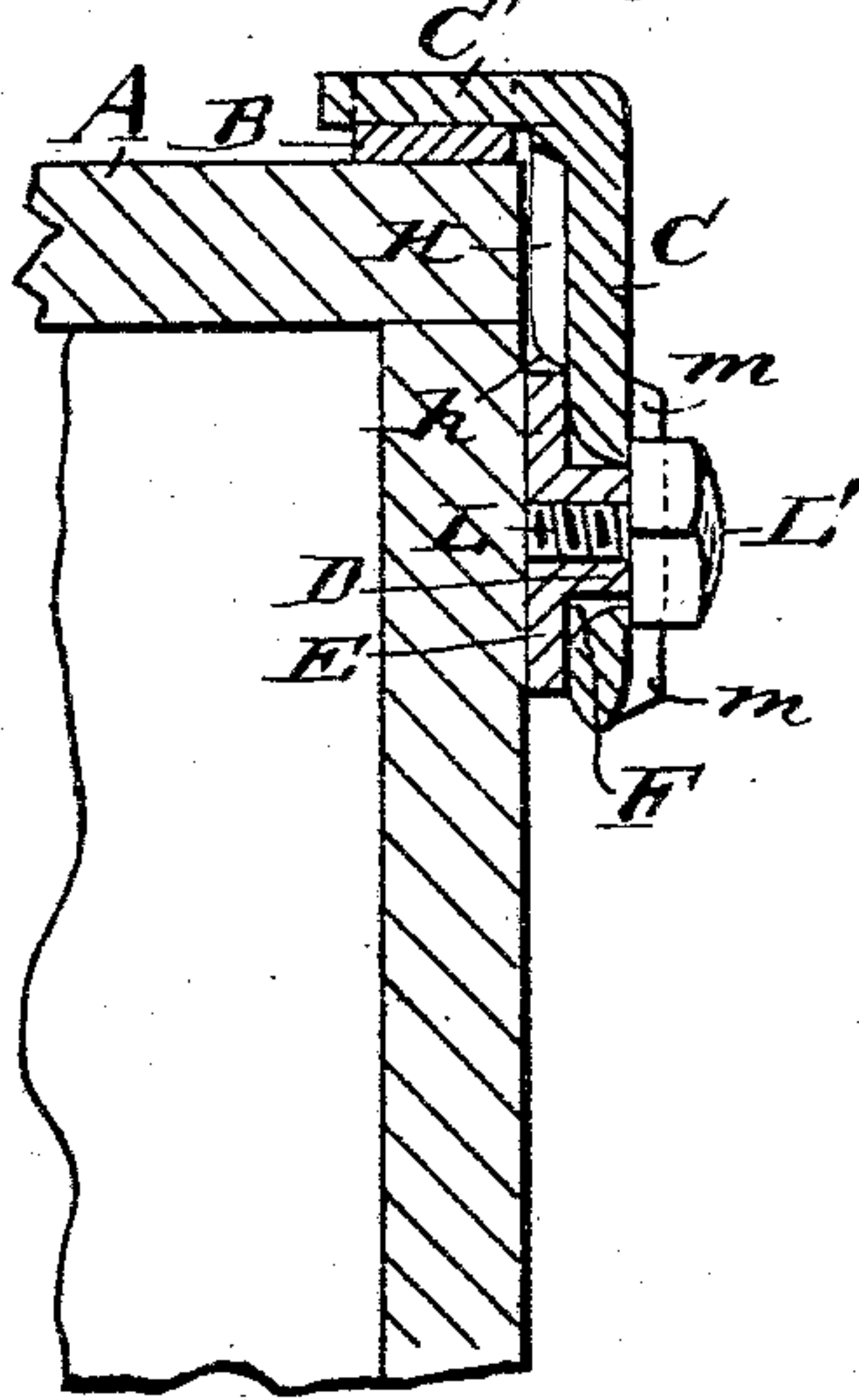


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES R. NELSON, OF NEW YORK, N. Y.

BOX-FASTENER.

SPECIFICATION forming part of Letters Patent No. 321,628, dated July 7, 1885.

Application filed September 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES R. NELSON, of the city, county, and State of New York, have invented a new and Improved Box-Fastener, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved device for fastening and securing covers on boxes, which device permits of fastening or unfastening the covers very rapidly.

The invention consists in the construction and arrangement of parts, as will be hereinafter described and claimed.

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 perspective view of the box-fastener. Fig. 2 is a vertical cross-sectional view of the same.

On each end of the cover A a saddle, B, is secured on the upper surface, which saddle is provided on its upper surface with two transverse ridges, between which the upper bent end, C', of a clamp-plate, C, can be passed, the said clamp-plate being provided in its lower end with an aperture, F, for receiving a tubular internally-screw-threaded projection, D, on a plate, E, secured transversely on the outer surface of the corresponding end of a box.

The clamp-plate C is widened at the lower end or provided with laterally-projecting lugs G, which are adapted to catch on lugs I, projecting from the outer face of the plate E. These lugs I, in connection with the transverse ridges on saddle B, prevent any lateral movement whatever of the clamp-plate when said plate is in its locked position.

The clamp-plate C is provided with ribs H on the inner surface along the side edges, which ridges are to rest against the outer surface of that end of the box to which the plate E is secured. The plate E is not mortised, but is placed against the outer surface of the end of the box and held on it by screws. The tubular screw-threaded projection D on the plate E takes all strain from the screw L, and the vertical strain on the said projection D is relieved by the lugs I, which receive through the lugs G of the clamp a portion of the strain. Ribs m are formed on the outer surface of the

plate C. These ribs m are for the purpose of imparting additional strength to the clamp-bar C at its perforated end, where, of course, it is weakest.

The ribs H are provided with offsets h at the lower ends, which offsets rest against the upper edge of the plate E.

When the plate C is not provided with ribs H, the said plate must be provided with the offset h. The purpose of providing the offset is to have the upper part of the inner surface of the plate C or of the ribs H flush with the inner surface of the plate E.

The aperture F is flared toward the inner end to permit swinging down the clamp-plate C parallel with the end of the box when the cover is to be removed. A screw, L, having a head, L', is screwed into the tubular projection D.

To fasten the box the plate C is swung up and moved toward the end of the cover until the part C' rests upon the saddle B, and then the screw L is drawn up tightly.

I am aware that a saddle having transverse ribs has been placed on the upper surface of the end of a box-top, and that a clamping-plate was secured to a mortised attaching-plate on the end of the body of the box by a long peculiarly-formed screw. The upper end of the clamping-plate was bent so as to rest between the transverse ridges of the saddle when in a locked position. I do not claim any such construction as of my invention.

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

1. In a box-fastener, the combination, with a clamp-plate having an aperture in one end, of a plate adapted to be secured on the box, and provided with an internally-threaded tubular projection, which is passed through the aperture in the clamp-plate, and a screw for holding the clamp-plate on the tubular projection, substantially as herein set forth.

2. The combination, with a clamp-plate having an offset, h, and an aperture at its lower end, of the plate E, having lugs I, on which lugs on the clamp-plate can catch, and a screw passing through the aperture in the clamp into the plate E, substantially as herein shown and described.

3. The combination, with the saddle B, hav-

ing transverse ridges, of the plate E, having
an internally-threaded projection, D, and lugs
I, the angular clamp-plate C, formed with the
aperture F, and lugs G on opposite sides there-
5 of, and the screw L, for clamping the parts in
place, whereby when said parts are in place
on a box all lateral movement will be pre-
vented by the lugs I and ridges on the saddle,
and the strain be equally distributed between
10 them, substantially as set forth.

4. In a box-fastener of the character de-
scribed, the clamp-plate C, having an aper-
ture, F, and the ridges *m* on opposite sides of
the aperture for imparting additional strength
15 to said perforated part, substantially as set
forth.

5. The combination, with the plate E, pro-
vided with an internally-threaded projection,
D, of the angular clamping-plate provided
with an aperture adapted to receive the pro- 20
jection D, and formed on its under surface
above the plate E with an offset, *h*, of the
depth of the thickness of plate E, whereby
when applied to a box all mortising will be
avoided, and the inner face of the clamp-plate 25
will be flush with the outer surfaces of the
plate E and the box, substantially as set forth.

CHARLES R. NELSON.

Witnesses:

OSCAR F. GUNZ,
EDGAR TATE.