

(No Model.)

W. N. BARR.

BOX FASTENER.

No. 386,912.

Patented July 31, 1888.

Fig I.

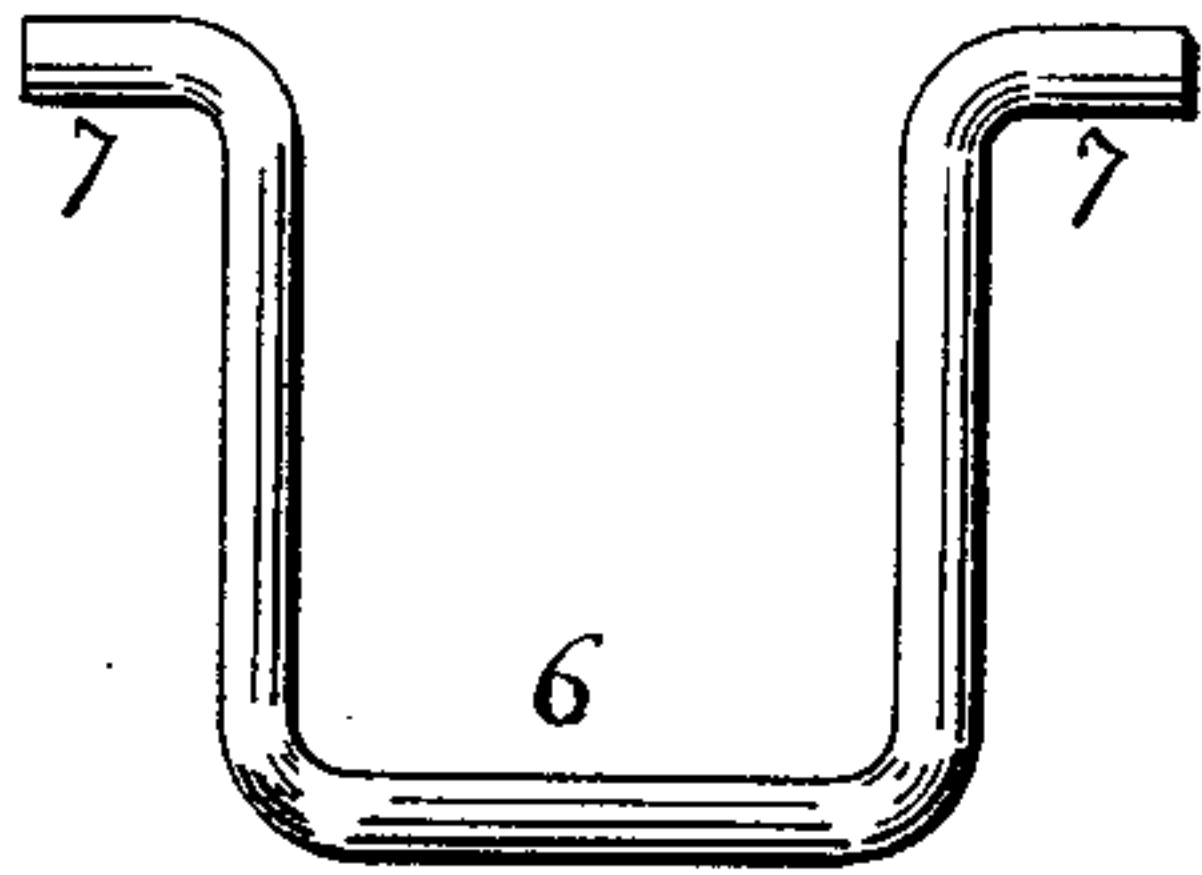


Fig II.

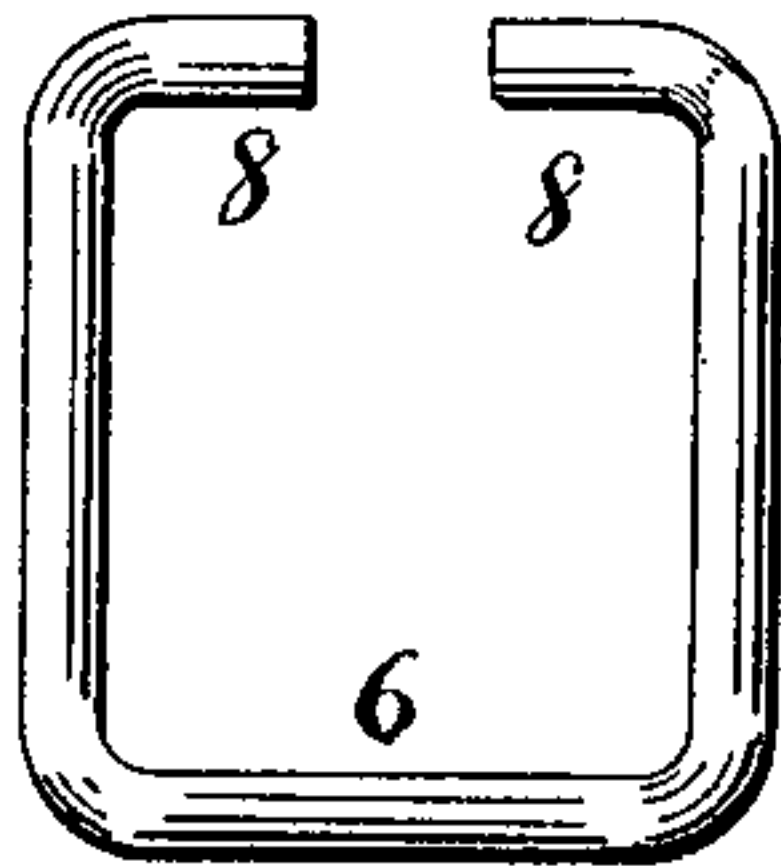


Fig III.

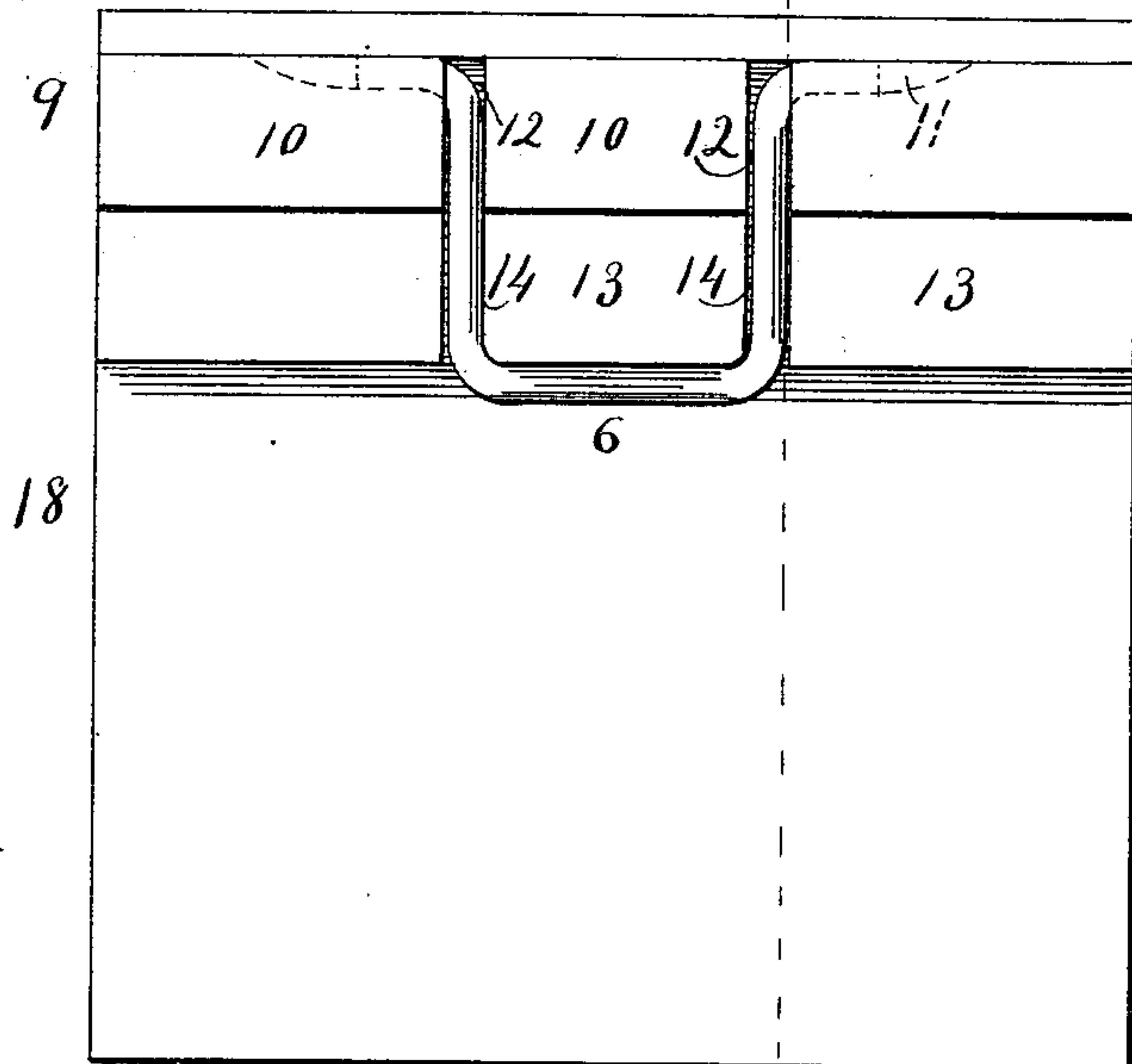


Fig IV.

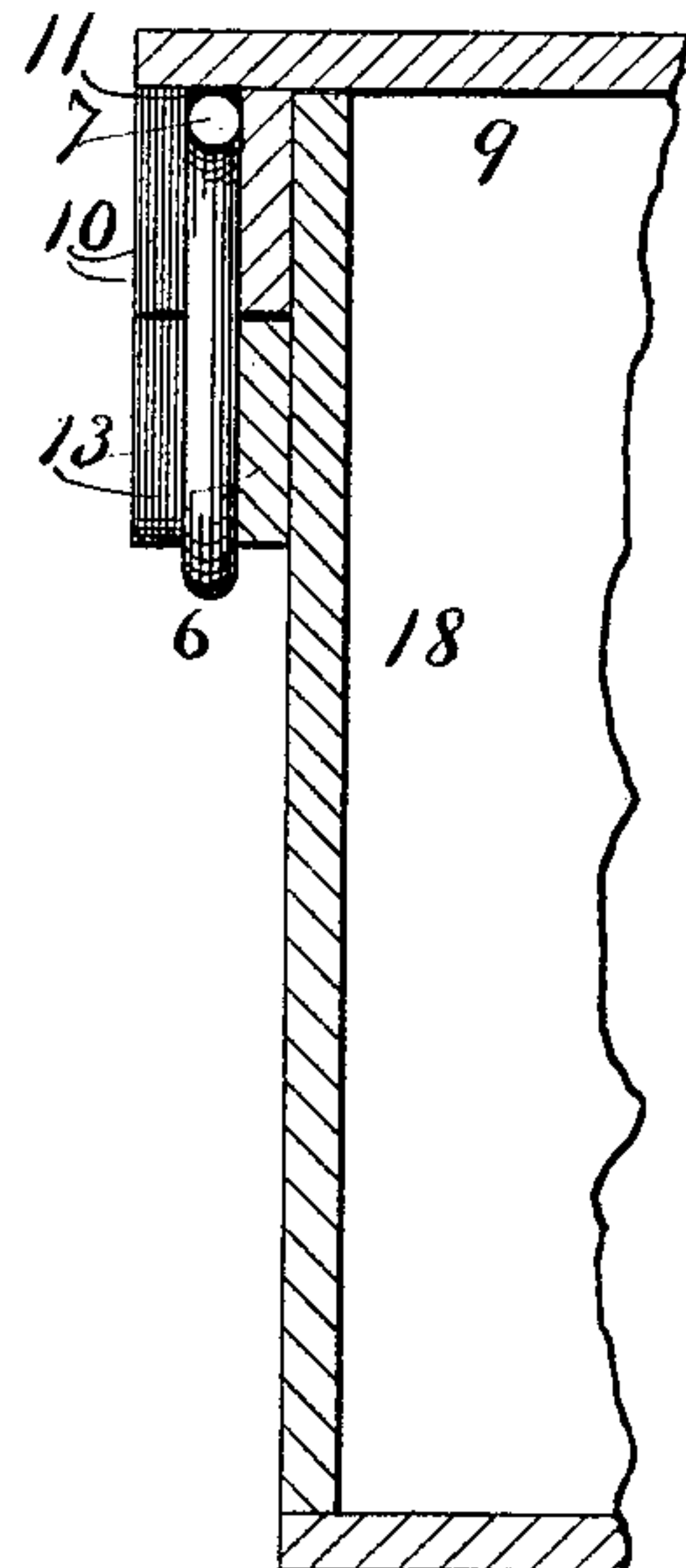


Fig V.

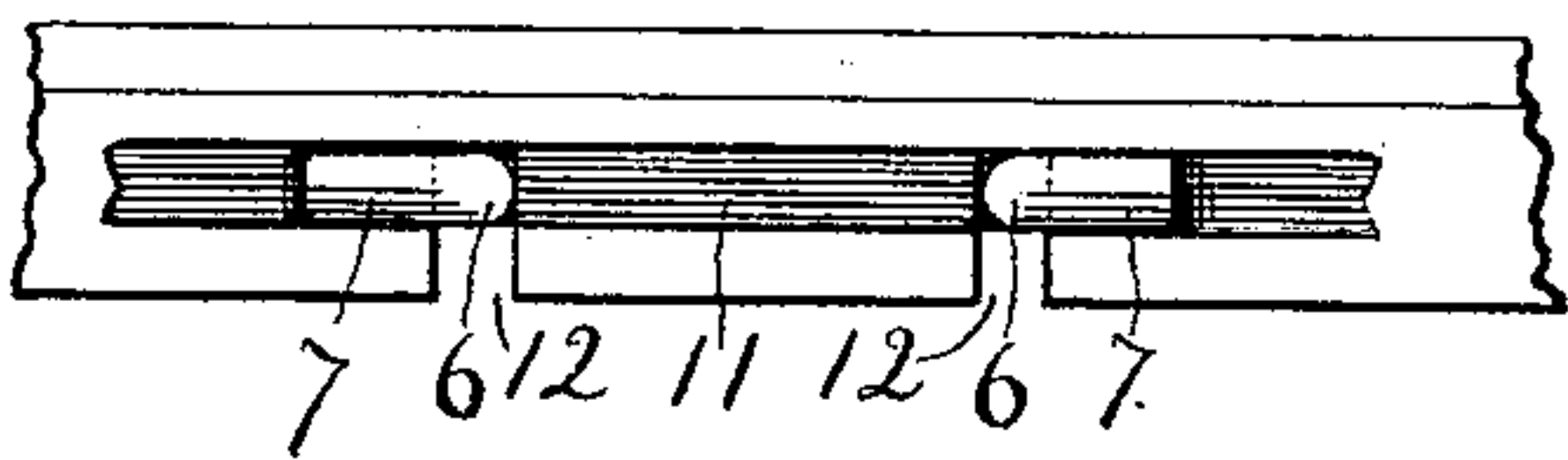
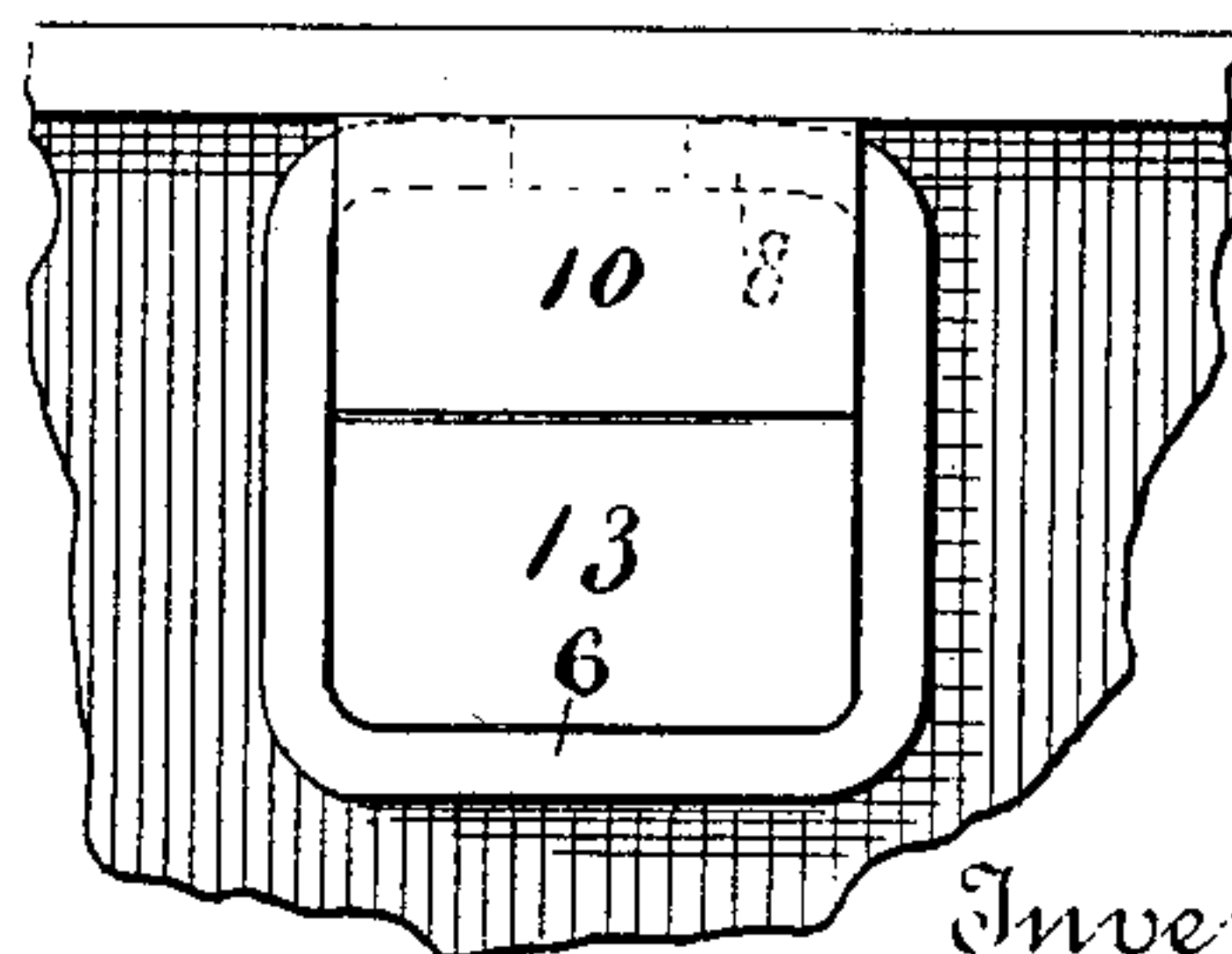


Fig VI.



Witnesses.

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By his Attorney *W. E. Stevens.*

UNITED STATES PATENT OFFICE.

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BOX-FASTENER.

SPECIFICATION forming part of Letters Patent No. 386,912, dated July 31, 1888.

Application filed January 27, 1888. Serial No. 262,160. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM N. BARR, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Box-Fasteners; and I do hereby 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.

This invention relates to that class of box-fasteners which are intended to temporarily secure the lids or covers upon boxes; and the object of the invention is to provide a simple and inexpensive lid-fastener, which may be readily attached to egg-carriers, to fruit-crates, and to wooden boxes used for various purposes.

To this end my invention consists in the construction and combination of parts forming a box-fastener, as hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure I represents my box-fastener. Fig. II represents a modification of the same. Fig. III is an end view of a box with my fastener in service. Fig. IV represents a longitudinal vertical section of a portion of the same box and fastener. Fig. V is a plan view of a portion of a lid-cleat without the lid top, and Fig. VI shows a modification of the complete invention.

6 represents the fastener, consisting of a wire bent in the form of a bail, with outward-projecting ears 7, as in Fig. I, or with inward-projecting ears 8, as in Fig. II.

18 represents a wooden box, and 9 a removable lid therefore. The lid is stayed against splitting by a cleat, 10, nailed across each end of it. In the upper edge of this cleat is a groove, 11, made deep enough to receive the ears of the fastener, and vertically across the outer face of the cleat are two grooves, 12, made deep enough to intersect the groove 11 to receive the side bars of the fastener.

13 represents a cleat secured to each end of the box in position to come directly under the lid-cleats 10. Each cleat 13 is grooved vertically across its face at 14 to register with the grooves 12 in the lid-cleats and to receive the fastener.

The fasteners 6 are made of uniform size, and the grooves are cut in the cleats to correspond therewith, so that in making up the boxes the ears of the fastener are to be hung in the groove 11 in cleat 10, the cover placed over it and nailed to the cleat, thus securing the fasteners so that they cannot be removed from the lid.

In service the lid is first to be placed upon the box, while the fasteners hanging by their ears are swung outward to pass over the cleat 13. Then the lid is to be slid across the box until the vertical grooves in the two cleats register with each other. Then the fastener is to be pressed down into the cleat 13, with the cross-bar of the fastener beneath the cleat. By this means the lid is fastened against removal from the box and against sliding across it.

It is not material to this invention that either of the cleats should extend entirely across the box. The length of the cleats is a matter of judgment; but in an extreme case they should be at least as long as the interior width of the fasteners, as shown in Fig. VI, in order that they may hold the lid against slipping cross-wise on the box. In that case the modification of the fastener shown in Fig. II is necessary to adapt it to be held by the short cleat 10. I do not suppose this bail-shaped fastener to be new of itself, nor that the general principle of its operation is new.

It being common to make all parts of boxes at factories and secure them in bundles to be compactly shipped for the receiver to nail together, my cleats grooved in their upper edges and cover-tops adapted to be nailed thereon and grooves in the outer faces of the cleats to meet the edge-grooves would become an article of manufacture and show the characteristics of this invention, because they would combine to form a box-cover adapted to receive my bail-fasteners described, or other wire fasteners having similar ears to hang in the edge-groove and provided with common hooks to hook beneath the box-cleat.

Having fully described my invention, what I desire to secure by Letters Patent is the following:

1. The combination of a box-lid having cross-cleats grooved in their upper edges beneath

the lid-top and grooved vertically across their
outer faces, a box having cleats grooved ver-
tically across their outer faces to register with
the corresponding grooves in the said lid-
5 cleats, and bail-shaped fasteners adapted to fit
the said vertical grooves, and hung in the
grooves in the edge of the lid-cleats and secured
therein by the lid being fastened upon the lid-
cleats, substantially as shown and described.
10 2. In a box-fastener, the cleats grooved in
their upper edges and in their outer faces
adapted to receive bail-shaped wire fasteners,

and a lid-top adapted to be secured upon the
upper edges of the said cleats and to cover the
grooves therein, substantially as shown and 15
described, whereby wire bails may be secured
in the said grooves.

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

WILLIAM N. BARR.

Witnesses:

P. J. DOWLING,
E. J. MANN.