

(No Model.)

J. H. MORLAN.
BOX ATTACHMENT.

No. 589,188.

Patented Aug. 31, 1897.

FIG. 1.

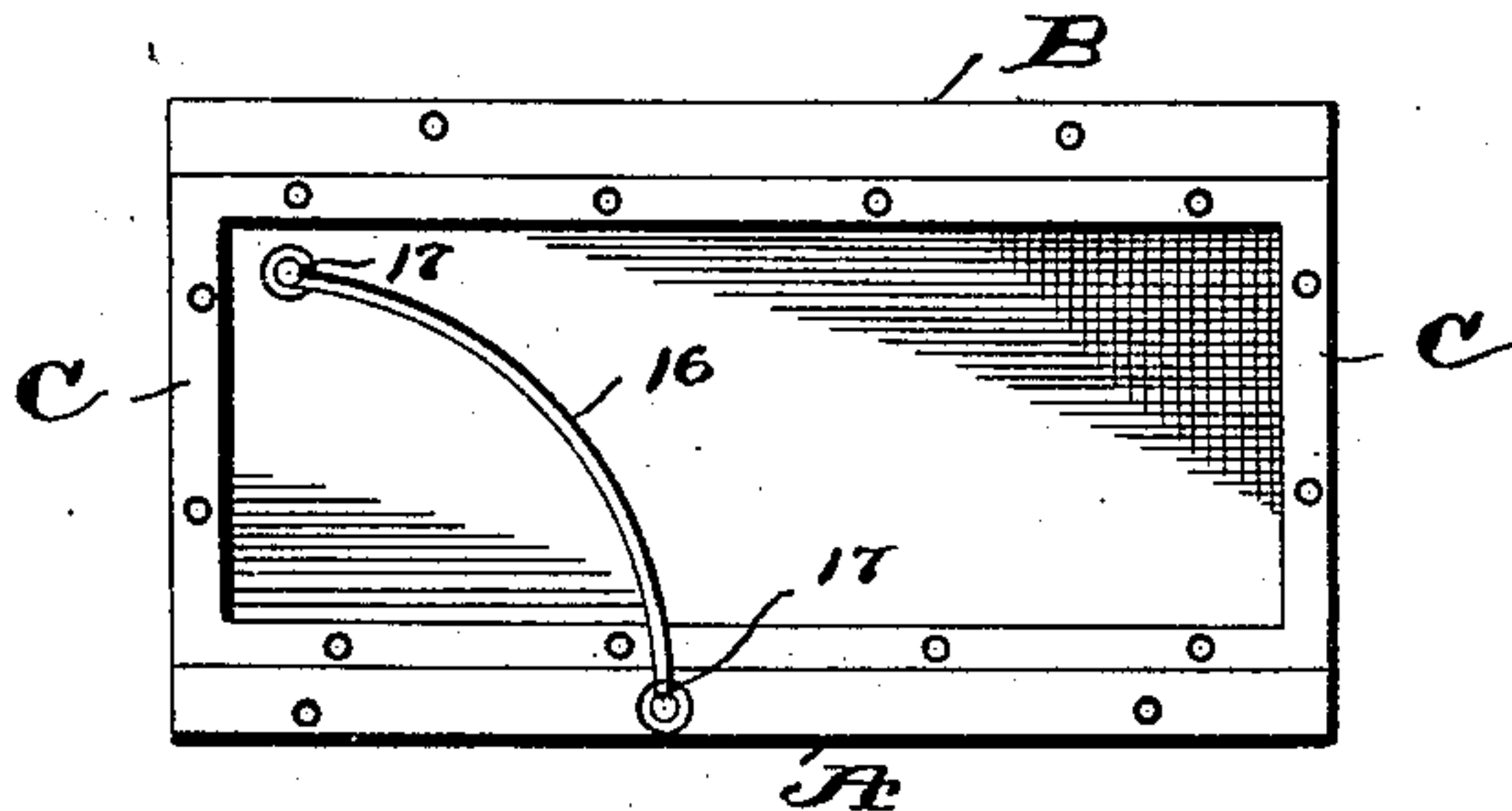


FIG. 2.

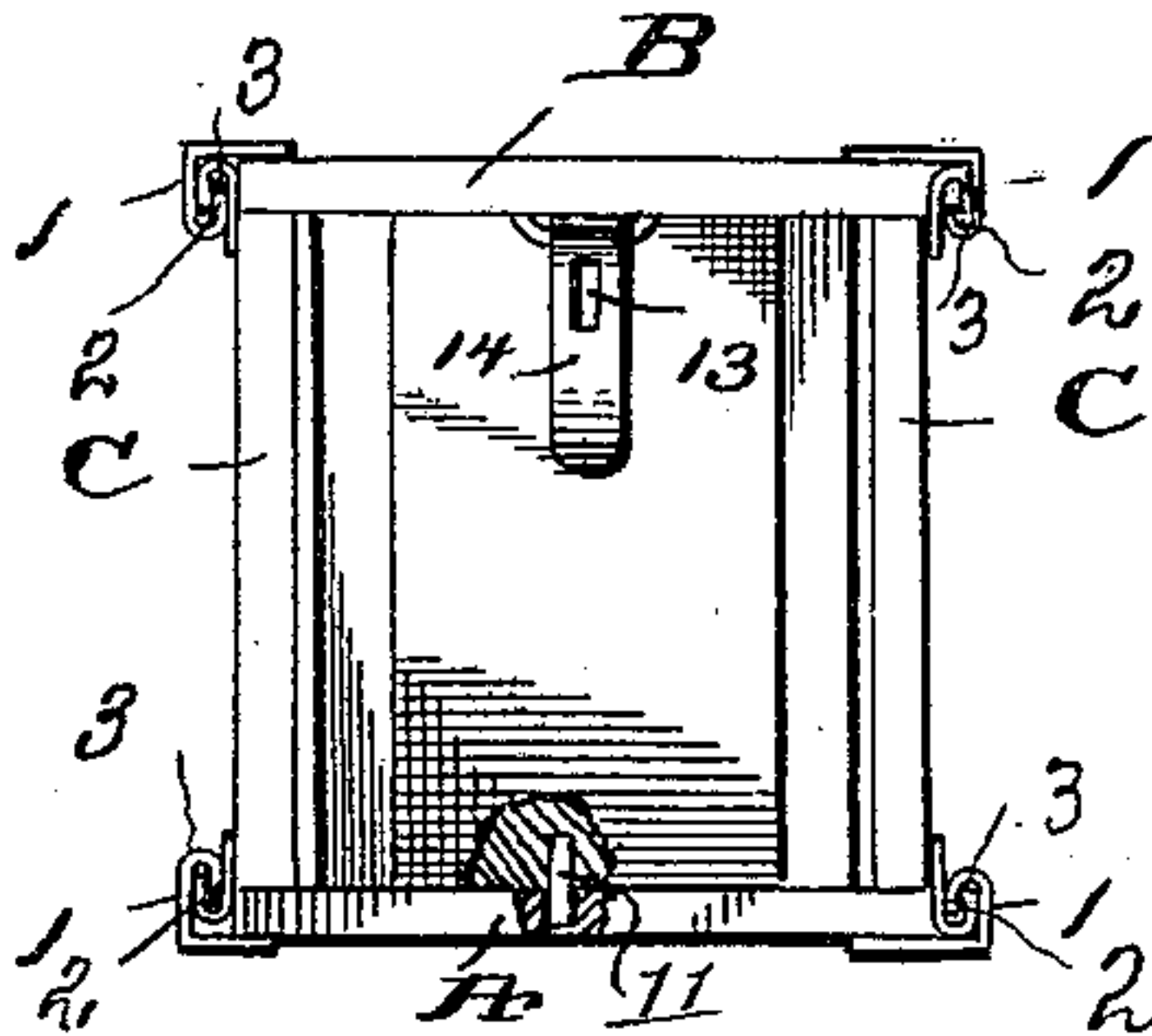


FIG. 3.

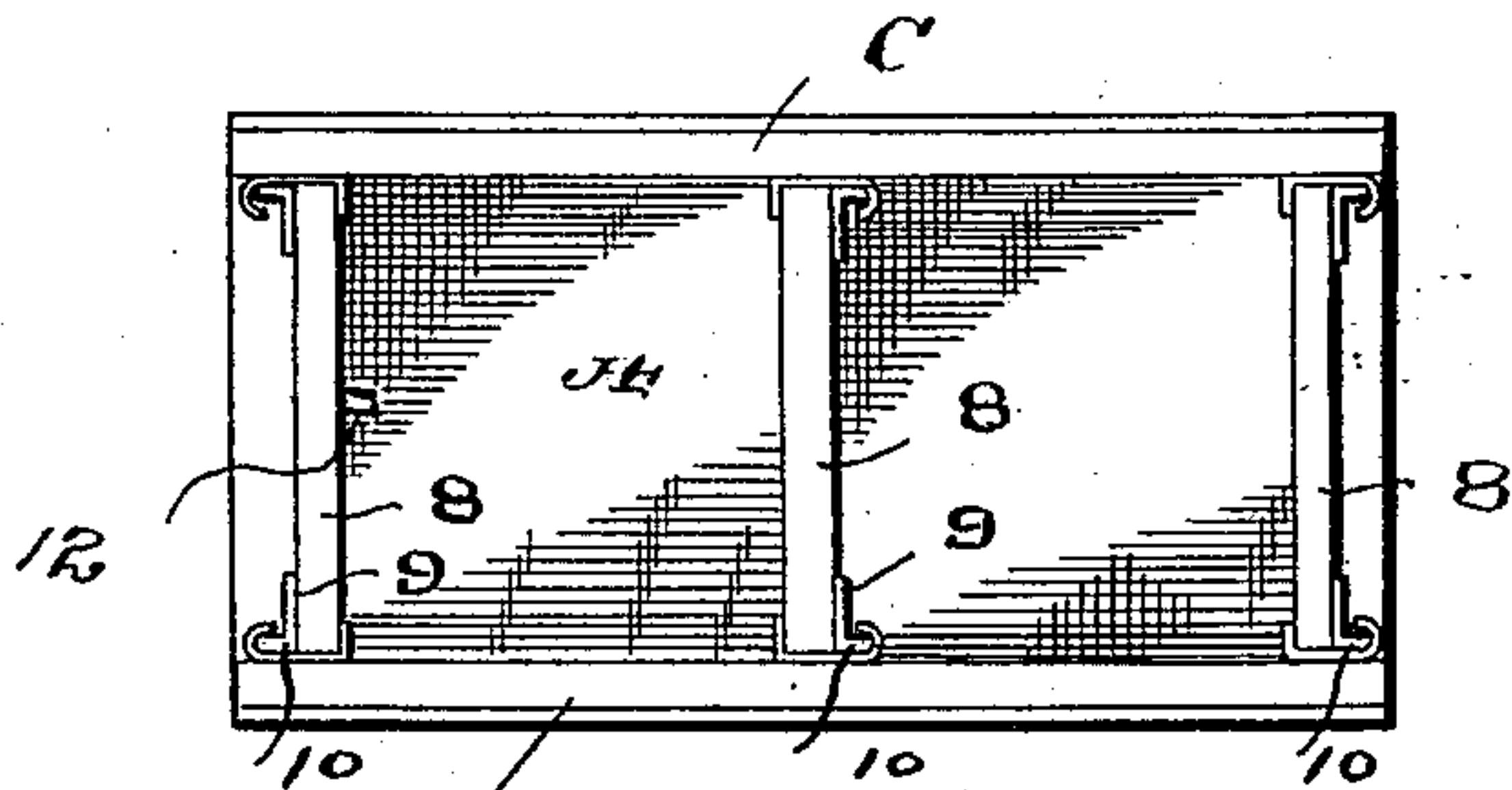


FIG. 4.

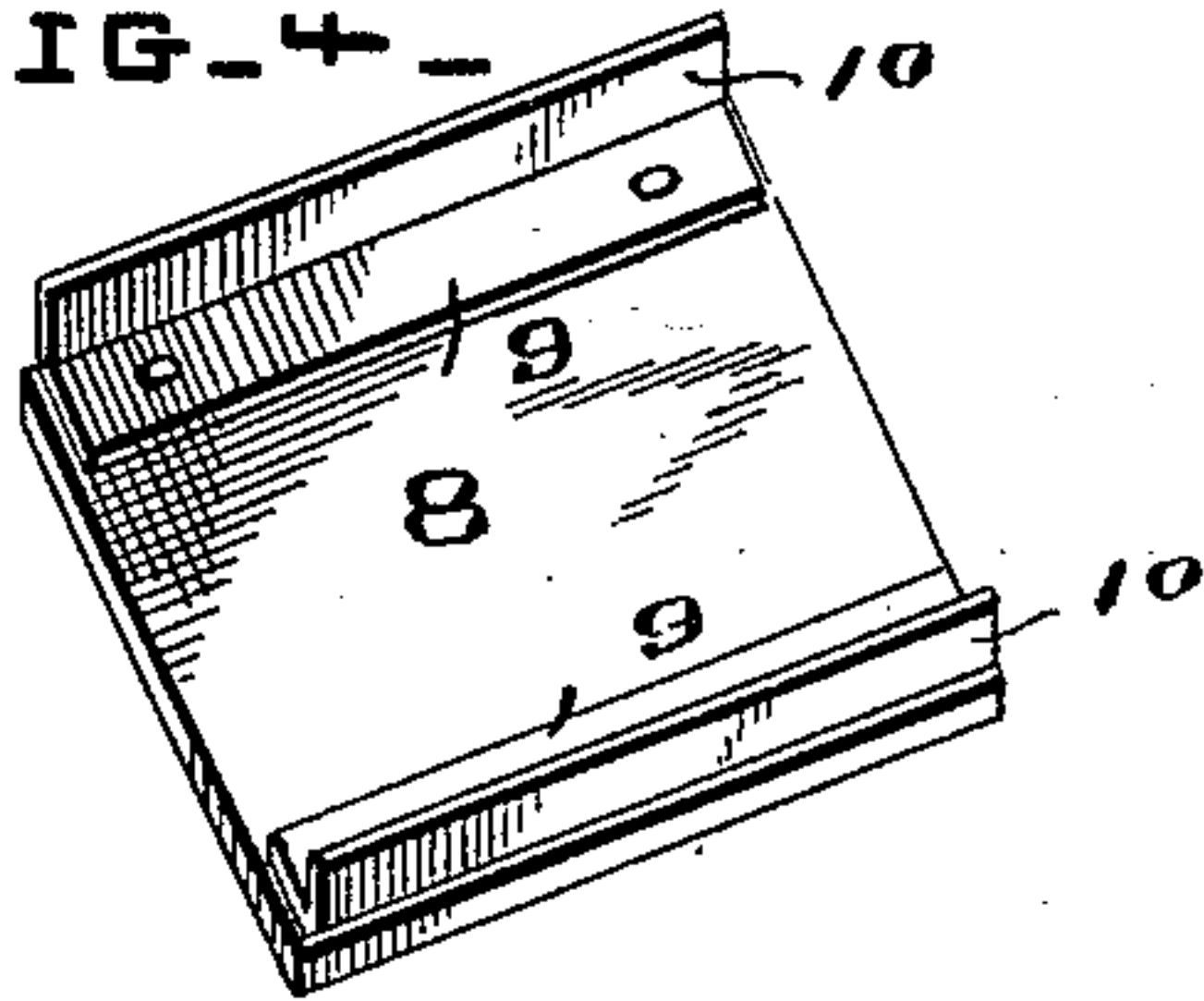


FIG. 5.

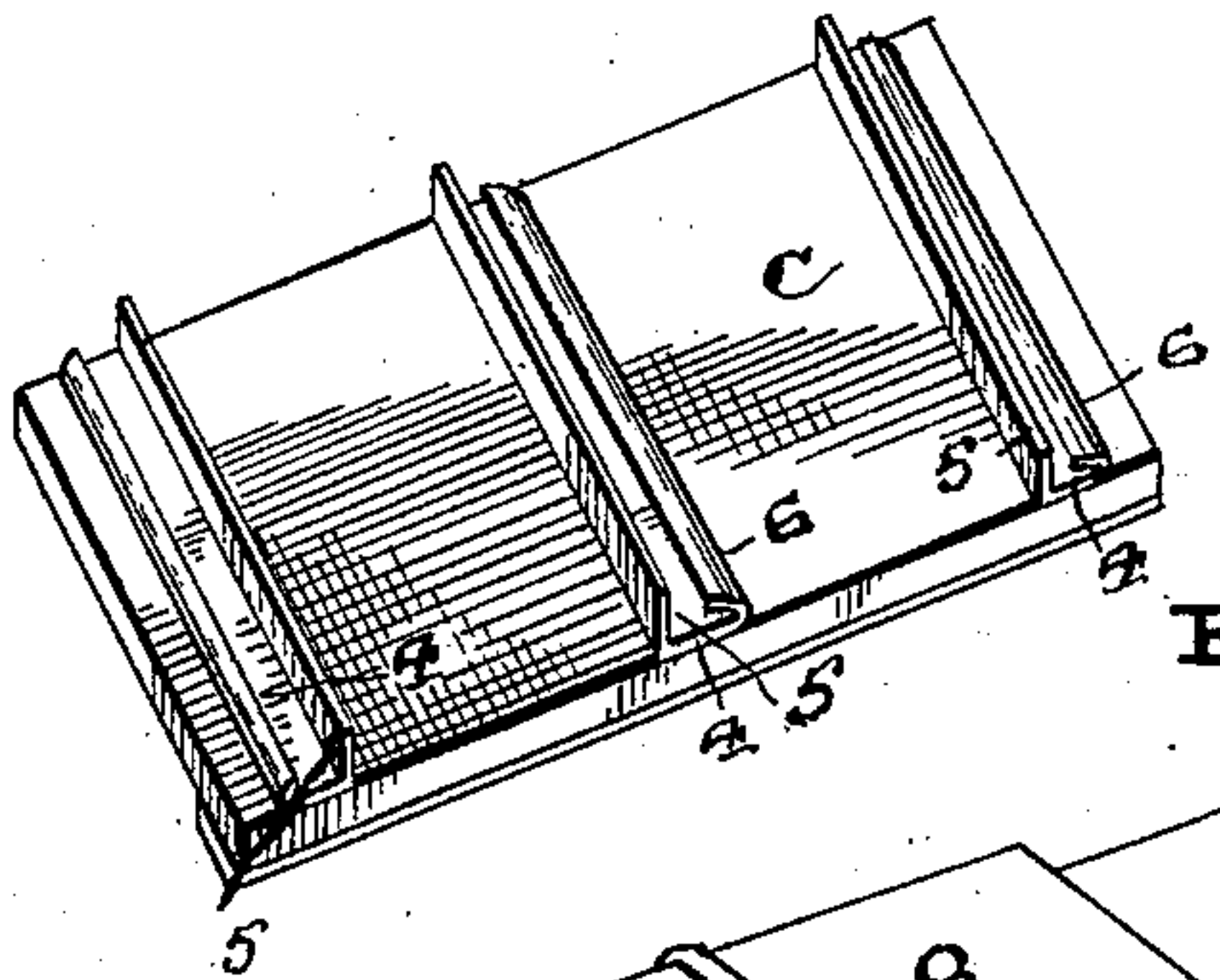
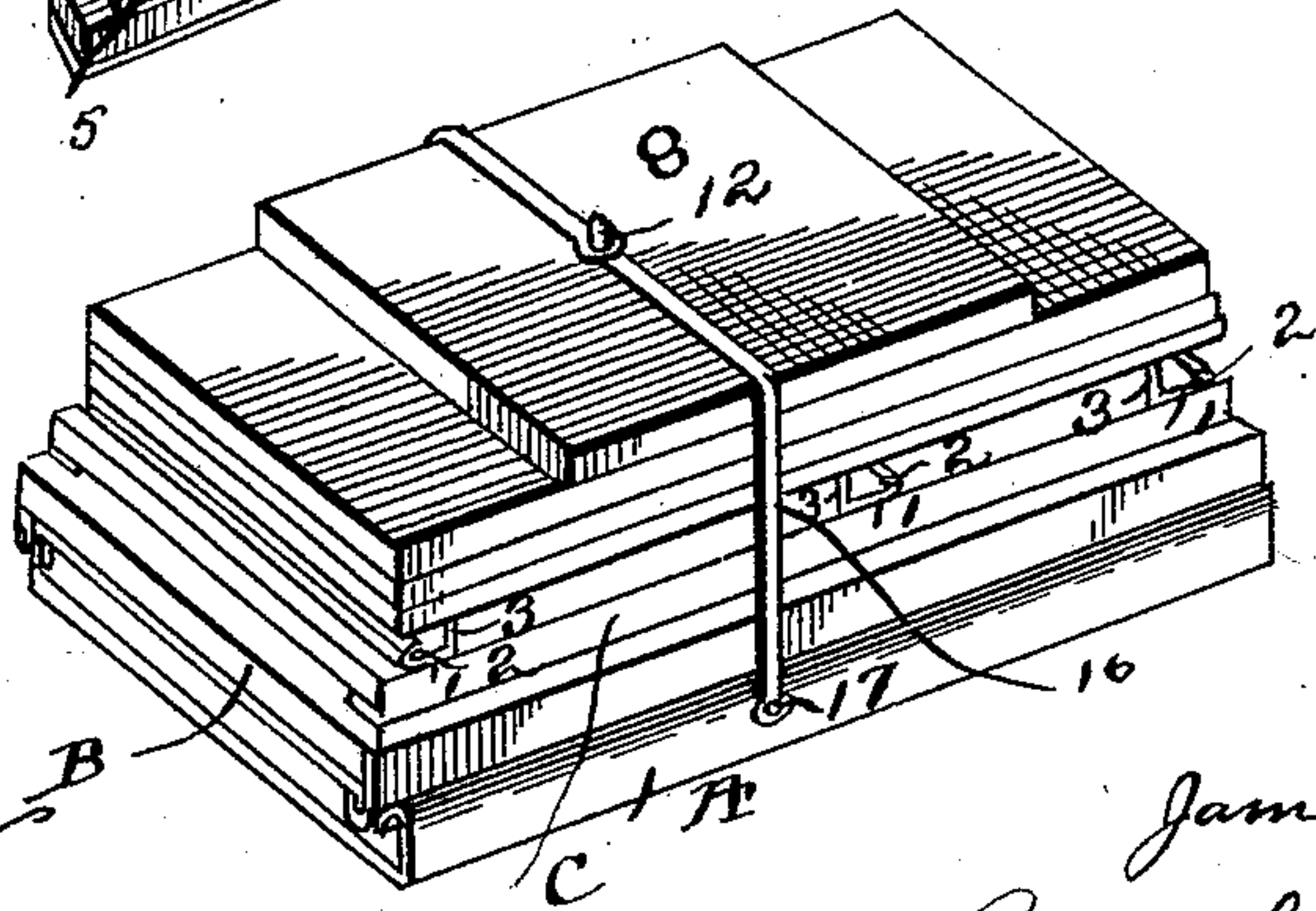


FIG. 6.



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BOX ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 589,188, dated August 31, 1897.

Application filed May 19, 1896. Serial No. 592,212. (No model.)

To all whom it may concern:

Be it known that I, JAMES HARVEY MORLAN, a citizen of the United States, residing at Kansas City, in the county of Wyandotte and State of Kansas, have invented certain new and useful Improvements in Box Attachments; 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.

My invention relates to collapsible or knockdown crates adapted for conveying eggs, berries, &c.

The object of the present invention is the provision of an improved and simplified crate of the class described which may be assembled or taken apart and bundled in compact form quickly and easily.

The invention consists in certain peculiar features and combinations, as will appear more fully hereinafter.

In the accompanying drawings, Figure 1 is a side elevation; Fig. 2, an end elevation; Fig. 3, a top view with the sliding cover removed; and Figs. 4 and 5, detail views of a partition and a side, respectively; and Fig. 6, a view showing the crate in knockdown form and bundled together.

The bottom A, cover B, and sides C are provided with longitudinal connecting-strips consisting of a flange 1, which is bent back upon itself, thereby forming a lip 2 and providing a groove 3. These lips engage with each other and slide in the grooves, so that the sides, bottom, and cover can all be moved longitudinally in relation to one another. The inner faces of the sides are provided with opposite connecting-strips, each consisting of a backing 4, narrow flange 5, and rebent lip 6, which provides a groove 7. These connecting-strips form guideways for vertically-movable partitions 8, whose sides are provided with connecting-strips 9, having flanges 10, that move in the grooves 7. One of the partitions is provided with a stud 11, that enters the bottom A and holds the sides and bottom in proper relation. The inner face of this partition is provided with a pin 12, which is used when the parts of the crate are bundled together, as shown in Fig. 6. This end partition is also provided with a staple 13, over which a hasp 14, fastened to the top or cover,

is secured by a suitable padlock 15, so that the crate may be locked up. To each side of the bottom is connected a fastening-wire 16, whose free end is held in position by a pin 17 on the side piece of the crate. When the crate is taken apart, these wires are disconnected from the sides and are fastened to the pin 12.

Having thus described the invention, what is claimed as new is—

1. In a collapsible or knockdown crate, the combination with a bottom, of longitudinal strips connected to the bottom and rebent on themselves, thereby providing guide-grooves, side pieces, longitudinal connecting-strips secured to the side pieces and provided with rebent portions, the rebent portions of one strip sliding in the groove of the other strip in each instance, detachable end pieces, a cover, and a fastening for securing the cover in position.

2. In a collapsible or knockdown crate, the combination with a bottom, of longitudinally-movable and detachable sides, rebent connecting-strips secured to the sides inside the crate, ends having vertical connecting-strips that interlock with and slide in the aforementioned strips whereby the ends may be moved vertically, a vertically-removable partition, a similar connection between it and the sides, a removable cover, and a fastening device.

3. In a collapsible or knockdown crate, the combination with a bottom having rebent connecting-strips at its opposite longitudinal edges, said sides having similar longitudinal connecting-strips interlocked with the connecting-strips of the bottom, and said sides likewise being provided with upper and similar connecting-strips, a cover having similar connecting-strips interlocking with and slidable longitudinally in the upper connecting-strips of the sides, and vertically-removable ends connected to the sides by similar connecting-strips.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JAMES HARVEY MORLAN.

Witnesses:

W. F. WALKER,
CHARLES L. MAIER.