

(No Model.)

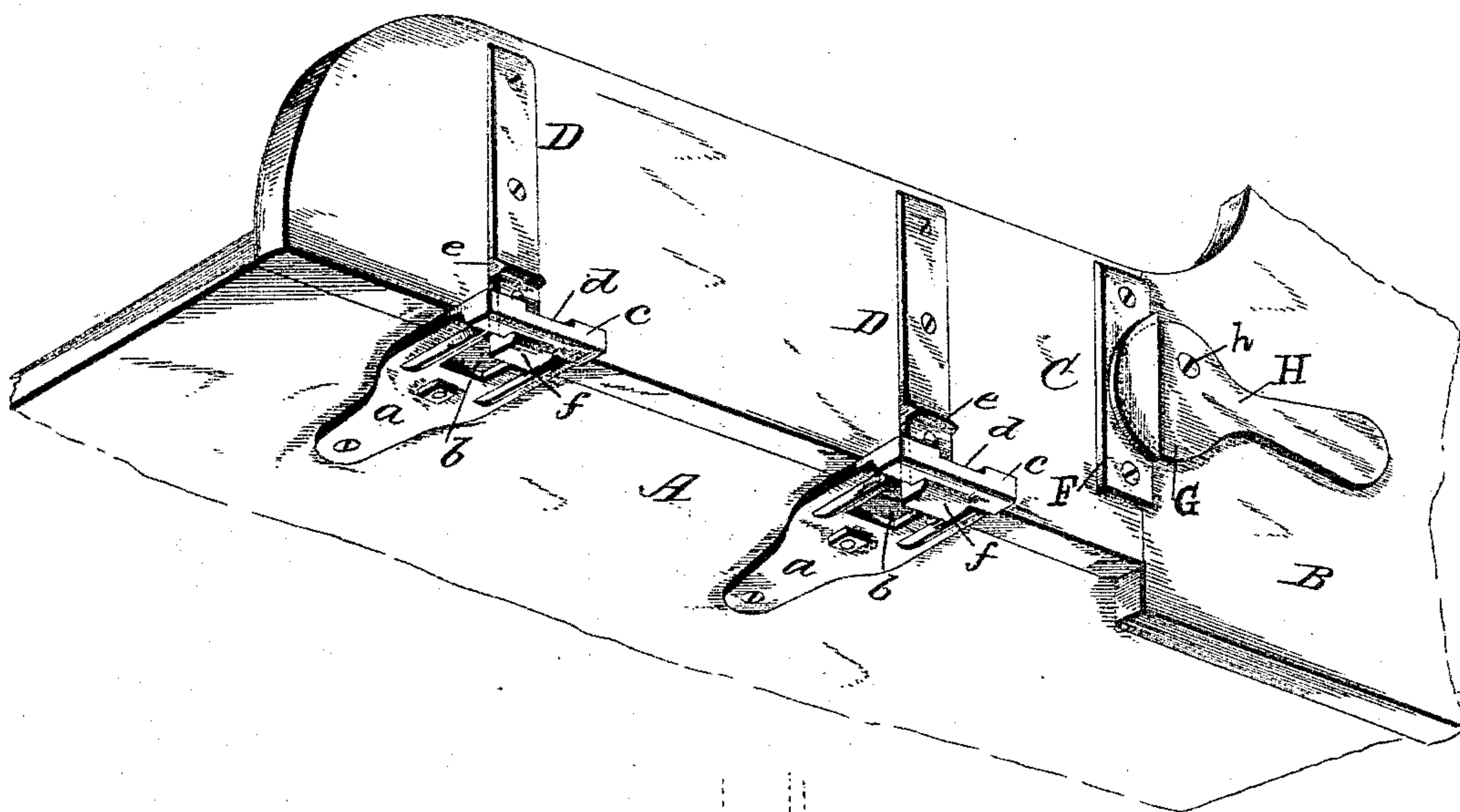
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FEED CUTTER BOX.

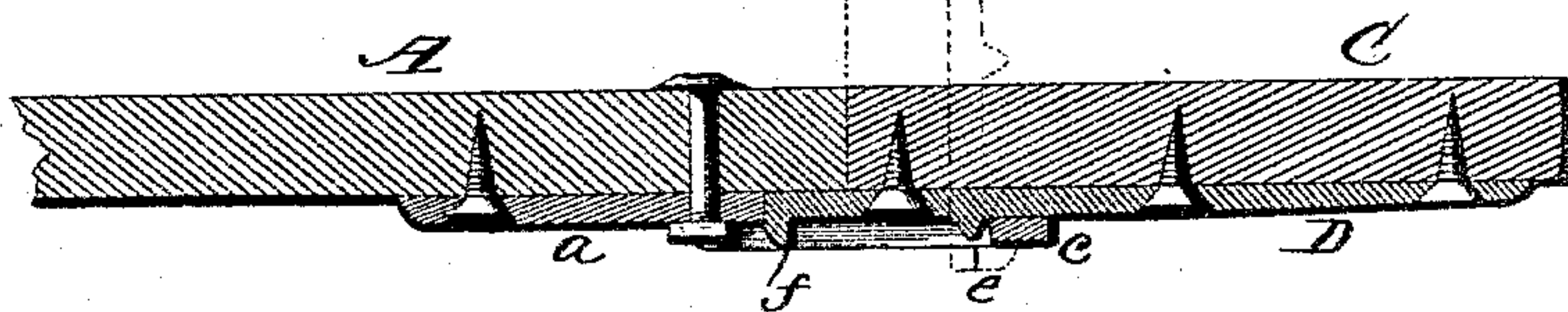
No. 412,302.

Patented Oct. 8, 1889.

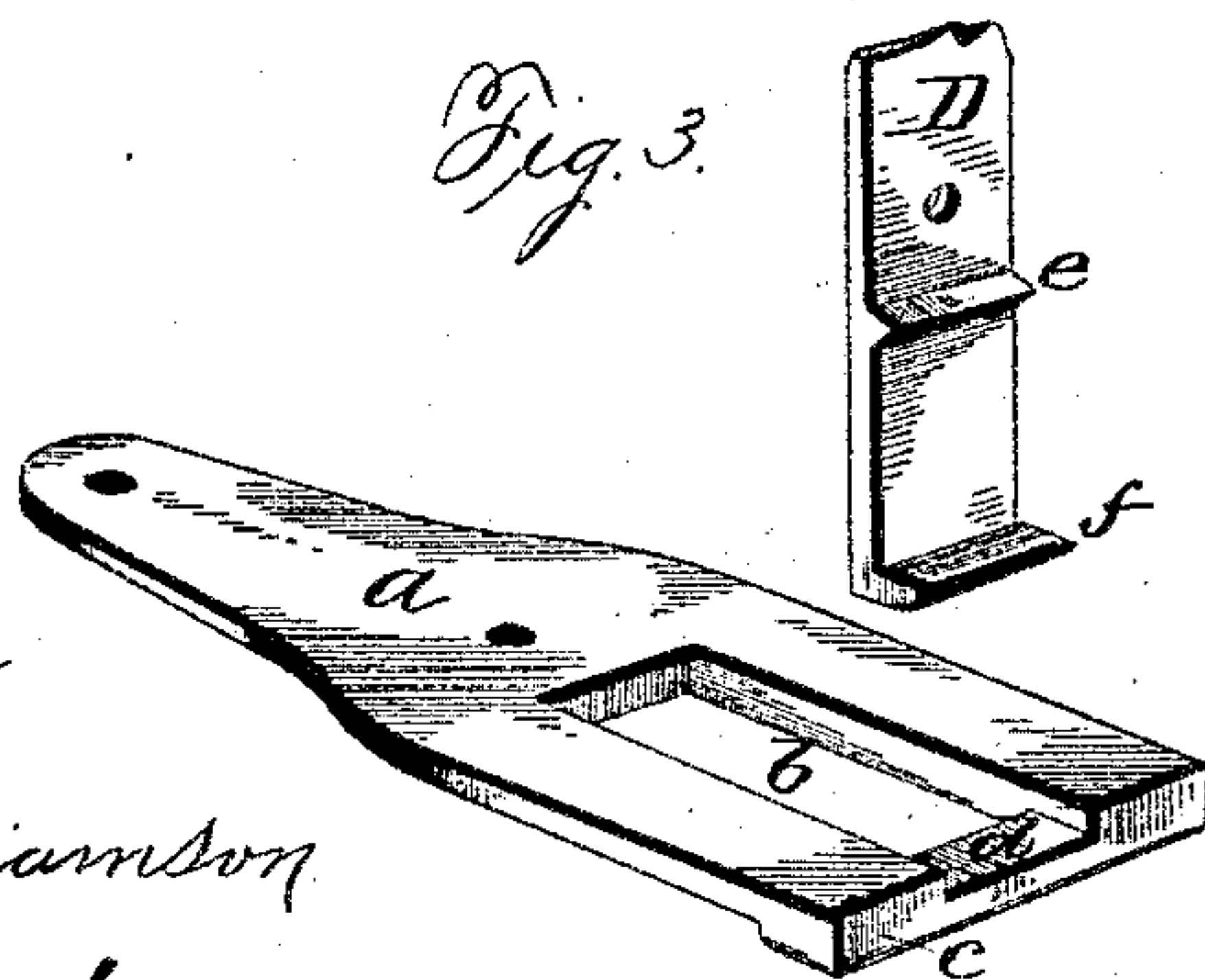
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses  
Chas. Williamson  
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per  
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# UNITED STATES PATENT OFFICE.

CLARENCE CHRISTIAN SMALLEY, OF MANITOWOC, WISCONSIN.

## FEED-CUTTER BOX.

SPECIFICATION forming part of Letters Patent No. 412,302, dated October 8, 1889.

Application filed March 30, 1889. Serial No. 305,356. (No model.)

*To all whom it may concern:*

Be it known that I, CLARENCE CHRISTIAN SMALLEY, a citizen of the United States, residing at Manitowoc, in the county of Manitowoc and State of Wisconsin, have invented certain new and useful Improvements in Feed-Cutter Boxes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

This invention relates to certain new and useful improvements in feed-cutter boxes; and it has for its object to provide the box with a hinged side, which when let down will serve as a table, providing also a peculiar form of hinge, which serves not only as a hinge upon which the said side turns, but also as a support for the side when in a horizontal position. Means are also provided for locking the hinged side in an upright position.

The invention consists in the peculiar combinations and the novel construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly pointed out in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view of a portion of a feed-cutter box embodying my invention. Fig. 2 is a sectional detail more particularly hereinafter referred to by letters of reference. Fig. 3 are perspective details of portions comprising the hinge.

Referring now to the details of the drawings by letter, A designates the bottom of the box, and B a portion of one of the sides. The end portion C of the side is made separate from the main portion thereof, as shown, and is hinged to the bottom in the following manner: *a* are metallic plates secured to the under side of the bottom A by suitable screws or bolts, or both. These plates are formed with elongated openings *b*, and the outer cross-bar *c* thereof is halved out or formed with the recess *d*, for a purpose hereinafter described.

To the end portion C of the side are secured the other portions of the hinges, which consist of the metallic plates D, secured to the said side by means of suitable fastenings—such as the screws shown—and each plate is formed near its outer end with two lugs *e* and *f*, the latter of which is preferably longer than the other.

In practice, with the end portion of the side in a vertical position, as shown in Fig. 1, the end lugs *f* catch under the end cross-bar *c* of the plates *a*, and the vertical portion of the said plate D will have a bearing against the inner side of said cross-bar. To lock the parts in this position, I provide a cam-lock, as shown in Fig. 1, in which F is a plate secured to the edge of the end portion C of the side, and provided with a chamber or socket, into which works the cam-head G of the locking-cam H, which is pivoted to the main portion of the side, as shown at *h*, and formed with a suitable handle, as shown, by which it is operated. When it is desired to place the end portion C in a horizontal position, the locking-cam is turned so as to withdraw its larger portion from the socket in the plate F, when the end portion will be free to be turned down. When turned down, the extended ends of the plates D will ride in the slots in the plates *a* until the parts assume the position in which they are indicated in full lines in Fig. 2, the lugs *e* bearing against the inner edges of the cross-bars *c* and the lugs *f* against the rear walls of the slots in the plates *a*, the plates D fitting in the halved-out portion of the cross-bar, which forms a support for the same, and allows the upper surface of the end portion C to be level with that of the bottom, and the side walls of the recess in the cross-bar prevent side movement of the plates D.

In the movement of the end portion C of the side the parts of the hinge automatically change into the required positions.

While I have shown two of my improved hinges on the side and bottom, of course I do not wish to confine myself to that number, as one arranged in the center would serve my purpose, and three or more might be advantageously employed; but I prefer the two shown.

My improvement is shown as applied to a feed-cutter box; but of course it is applicable to other forms of boxes.

What I claim as new is—

- 5 The combination, in a feed-box, with the bottom and the side, of the plate attached to the under side of the bottom and formed with an elongated slot and recessed cross-bar at its outer end, and the plate attached to the side,  
10 with one end provided with lugs *e* and *f*, and

working in said slot, substantially as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CLARENCE CHRISTIAN SMALLEY.

Witnesses:

ANNE M. SIBREE,

C. HENNOGENE SMALLEY.