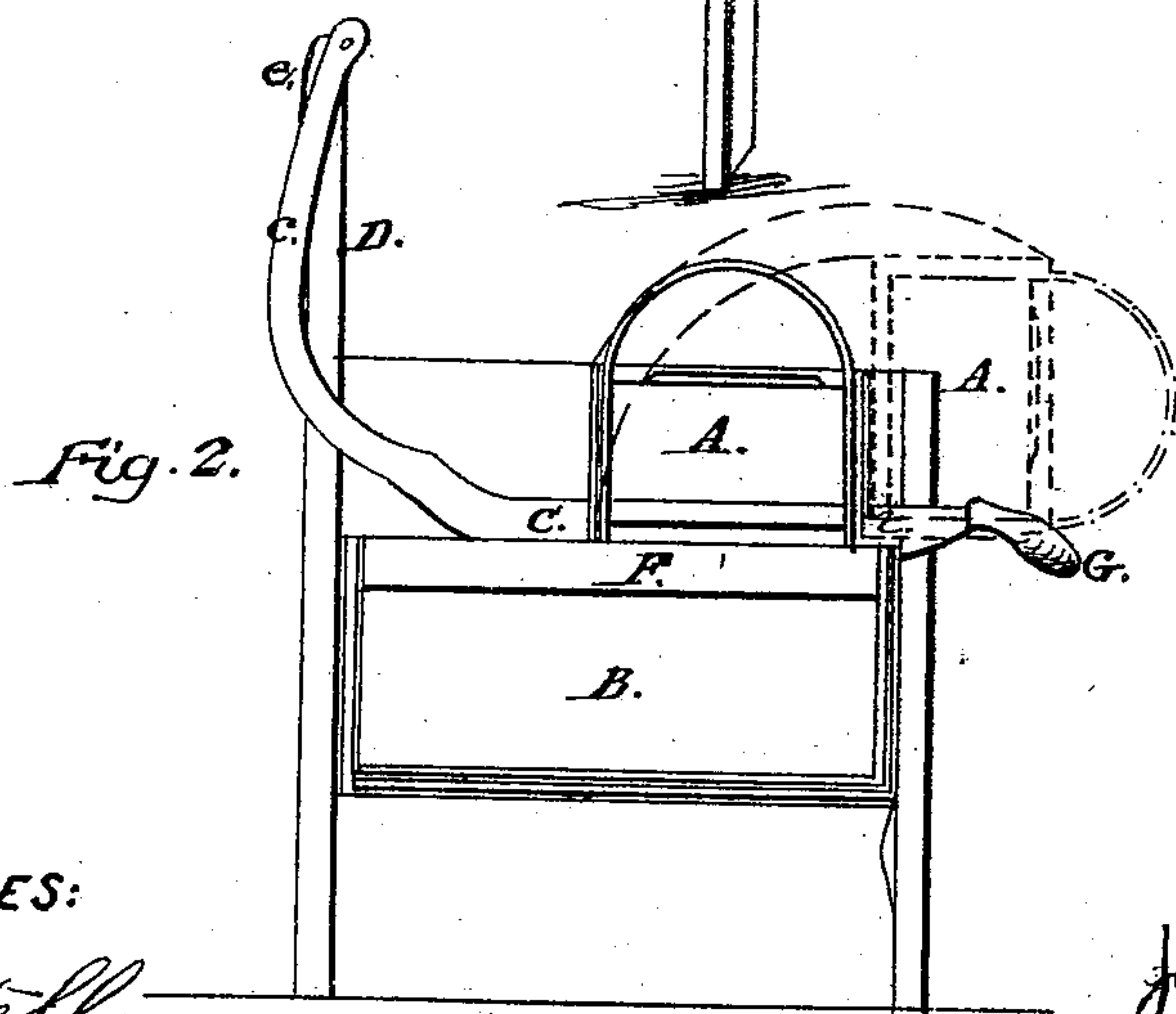
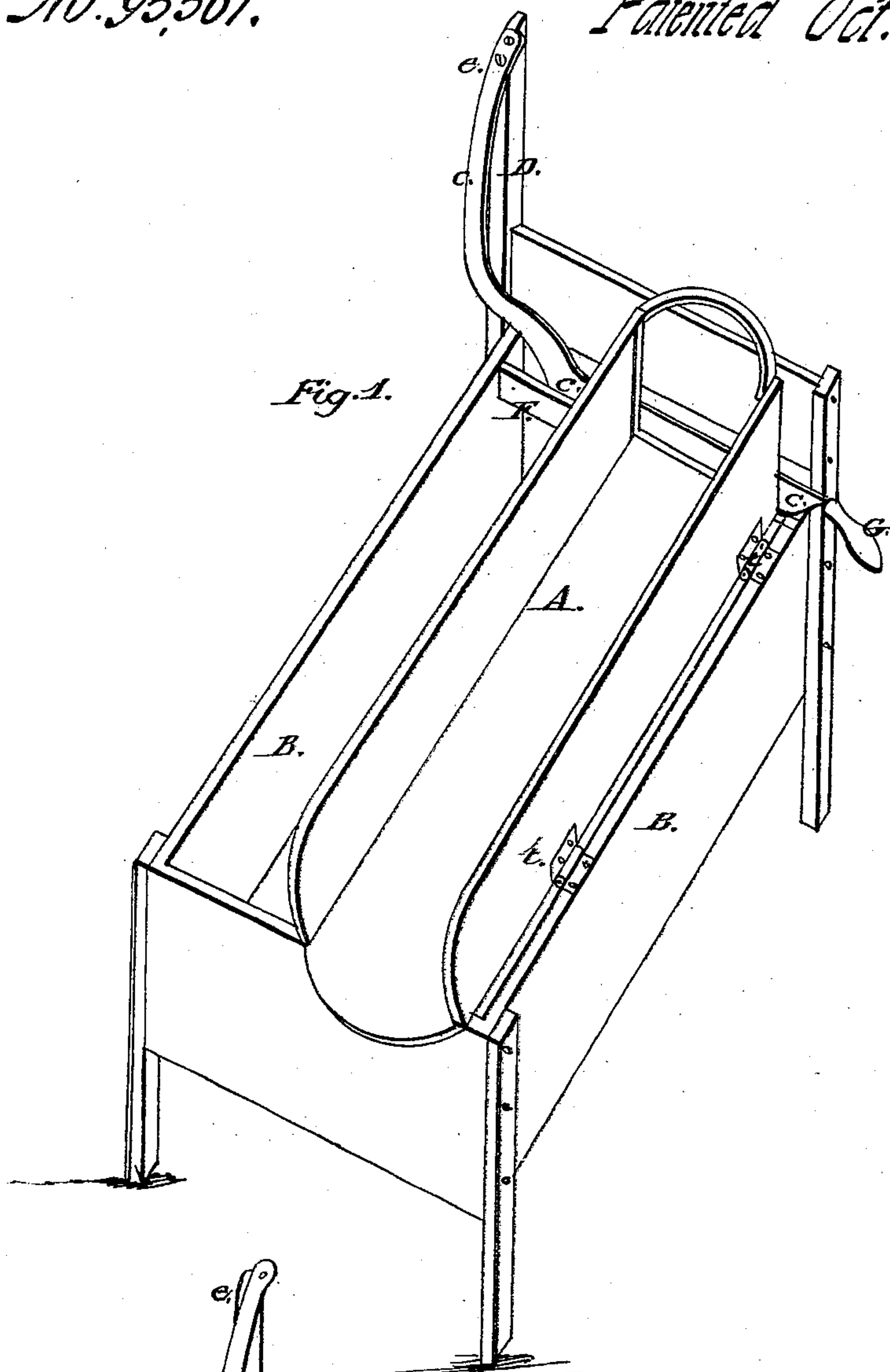


J. Burgess,

Straw Cutter.

No. 95,561.

Patented Oct. 5. 1869.



WITNESSES:

W. P. Estell
Wm. R. Webster

INVENTOR:

Jesse Burgess
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Attorney.

United States Patent Office.

JESSE BURGESS, OF RICHMOND, INDIANA.

Letters Patent No. 95,561, dated October 5, 1869.

IMPROVEMENT IN COMBINED STRAW-CUTTER AND FEED-BOX.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JESSE BURGESS, of Richmond, in the county of Wayne, and State of Indiana, have invented a new and useful Combined Straw-Cutter and Feed-Box; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification.

The first part of my invention relates to a novel manner of constructing the knife of a straw-cutter, which is so formed and attached, that by simply pressing it downward, a combined horizontal and vertical motion is imparted to the edge, producing a drawing-cut, and giving great efficiency to the stroke.

The second part of my invention relates to the construction of a combined straw-cutter and feed-box, as will be hereinafter described.

In the accompanying drawings—

Figure 1 is a perspective view of my combined straw-cutter and feed-box, and

Figure 2 is a vertical section of the same.

Similar letters in the different figures refer to corresponding parts.

The cutter-box A rests upon the feed-box B, to which it is secured by means of the hinges *t t'*, in such a manner that it may be partially revolved, as shown by dotted lines in fig. 2.

The knife C is provided with an arm, *c*, that extends upward, (the blade of the knife being in a horizontal position, with the edge downward, as shown in the drawings,) and is secured by a bolt, *e*, to the post D.

In operation, the knife is raised with the hand, by grasping the handle G, and is pressed downward, through the straw to be cut. Meanwhile, each point of the blade passes through an arc of a circle, having

a radius equal to the distance from that point to the bolt *e*, by reason of which, and the peculiar form of the knife, a drawing-motion of the edge is produced, giving great efficiency to the stroke.

It is necessary that the arm *c* should be about equal in length to the cutting-edge of the knife, in order that the blade may have the proper amount of "draw" or horizontal motion, while the vertical motion is through an arc that may be conveniently traversed by the hand of the operator.

The feed-box B may be constructed of any suitable dimensions, and is provided with a cross-piece, F, that supports one end of the cutter-box, and also serves to protect the edge of the knife while mixing the feed.

It is claimed that great convenience will result from combining the straw-cutter and feed-box, as here shown, the feed-box being raised to a convenient height for mixing the feed, and the whole being more compact and simple than when separate and distinct, as usually constructed.

Having thus fully described my said invention,

What I claim, and desire to secure by Letters Patent, is—

1. The knife C, having an arm, *c*, extending in a direction at right angles to the blade, when said arm is about equal in length to the cutting-edge of the blade, substantially as and for the purpose set forth.

2. The combination of the cutter-box A, feed-box B, and knife C, when constructed and operated substantially as herein shown and described.

JESSE BURGESS.

Witnesses:

JOHN B. SINEX,
ARTEMAS ROBERTS.