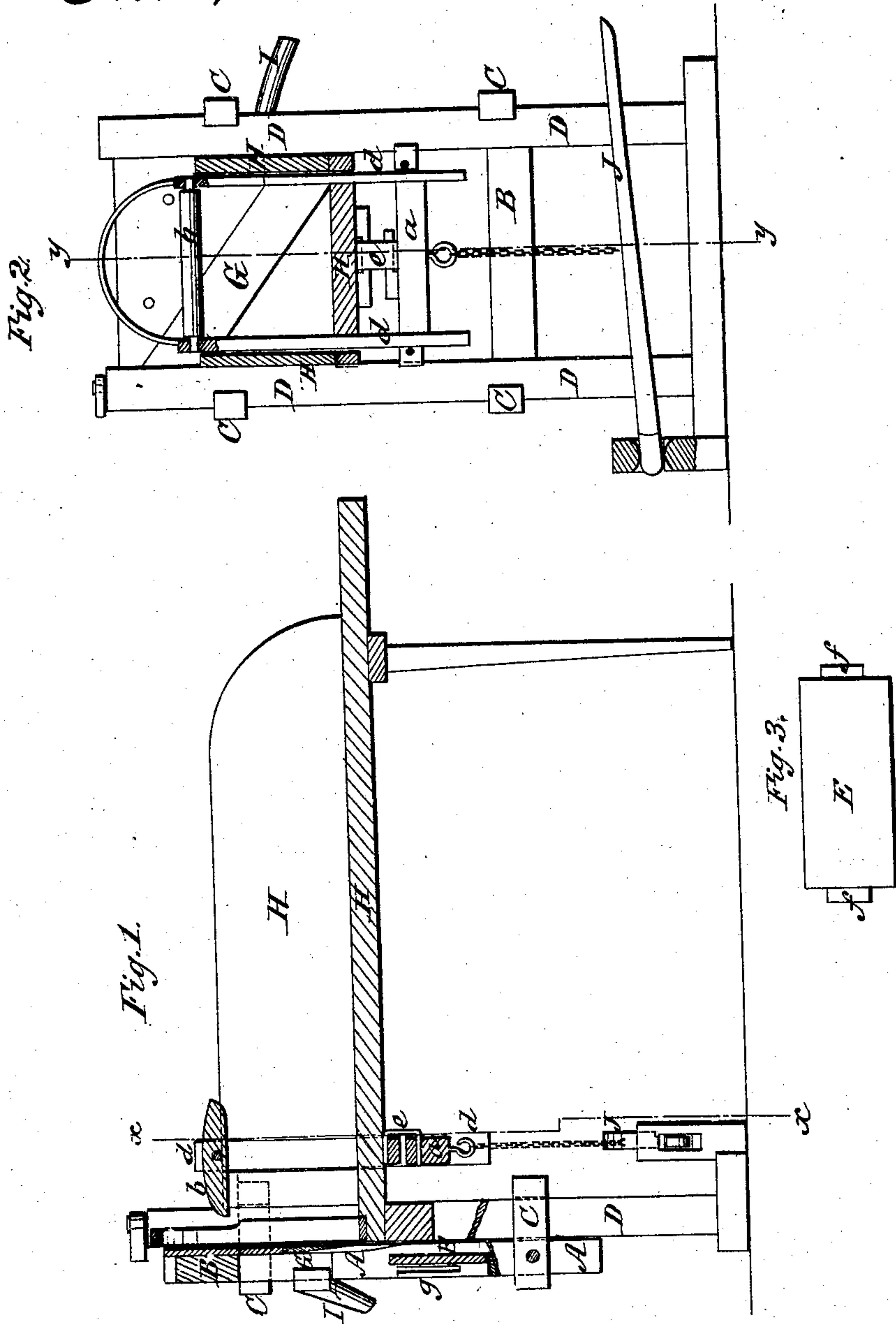


E. Donly,

Straw Cutter.

No. 89,389.

Patented Apr. 27, 1869.



Witnesses.

C. Praetig.

Wm. A. Morgan.

Inventor.

E. Donly.

per Munn & Co.
Attys.



ELLIS DOUTY, OF COLLOMSVILLE, PENNSYLVANIA.

Letters Patent No. 89,389, dated April 27, 1869.

IMPROVEMENT IN STRAW-CUTTERS.

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, ELLIS DOUTY, of Collomsville, in the county of Lycoming, and State of Pennsylvania, have invented new and useful Improvements in Straw-Cutters; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a longitudinal vertical section of a straw-cutting machine provided with my improvements, the section being taken at the line *y y* of fig. 2.

Figure 2 is a cross-section of the same machine, the section being taken at the line *x x*, fig. 1.

Figure 3 is a detail front view of the gauge-board.

Similar letters of reference indicate corresponding parts.

This invention relates to those straw-cutting machines in which a straight knife or cutter is employed in a reciprocating frame sliding vertically on the front uprights, and operating to bring the edge of the knife downward across the end of the box with a shear-cut.

My invention consists in the combination of parts, as will be hereinafter more fully described.

In the drawings—

H is the feed-box, and

D, the front uprights of the same.

A B is the cutter-frame, bearing the cutter G.

This frame is provided with blocks or projections, C, which are recessed, to slide on the uprights D, and thus guide the frame A B and its knife in their reciprocal motion.

The gauge-board E is for the purpose of limiting the forward movement of the straw, so as to cut or chop the same into short pieces of uniform length.

This board is removable, its ends being formed with tenons, *f*, which fit in slots or grooves, *g*, in the proximate faces of the uprights D.

There are two pairs of such grooves in the uprights, one pair being in advance of the other, so that the board can be removed from one pair to the other, as the straw is to be cut longer or shorter, or be removed altogether, when the straw is to be cut no particular gauged length.

The feed-frame is shown at *a b d d*, *b* being a presser-board, which is brought down upon the straw, to hold it up to the gauge-board during the operation of cutting.

This frame is connected, by a chain, to a treadle, J, so that it may be operated by the attendant's foot.

The lower cross-piece, *a*, of the frame is connected with the under side of the box H by means of an elastic rubber strap, *e*, the natural tension of which serves to raise the frame, and relieve the straw from the pressure of the presser-board *b*, when the attendant's foot is raised, thus permitting the straw to be pushed up to the gauge-board E.

The presser-board is hung on a rod, connecting the sides *d d* of the frame, to permit it to accommodate its position to the straw.

I is the handle of the cutter-frame.

I am aware that the pivoted presser-board is not new, in itself considered, and I do not, therefore, so claim it; but

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

The elastic strap *e*, in combination with the feed-board H and the feed-frame, consisting of the cross-piece *a*, sides *d d*, and pivoted presser-board *b*, all arranged as described, for the purpose specified.

ELLIS DOUTY.

Witnesses:

ADAM EPLER,
JOHN BRICKER.