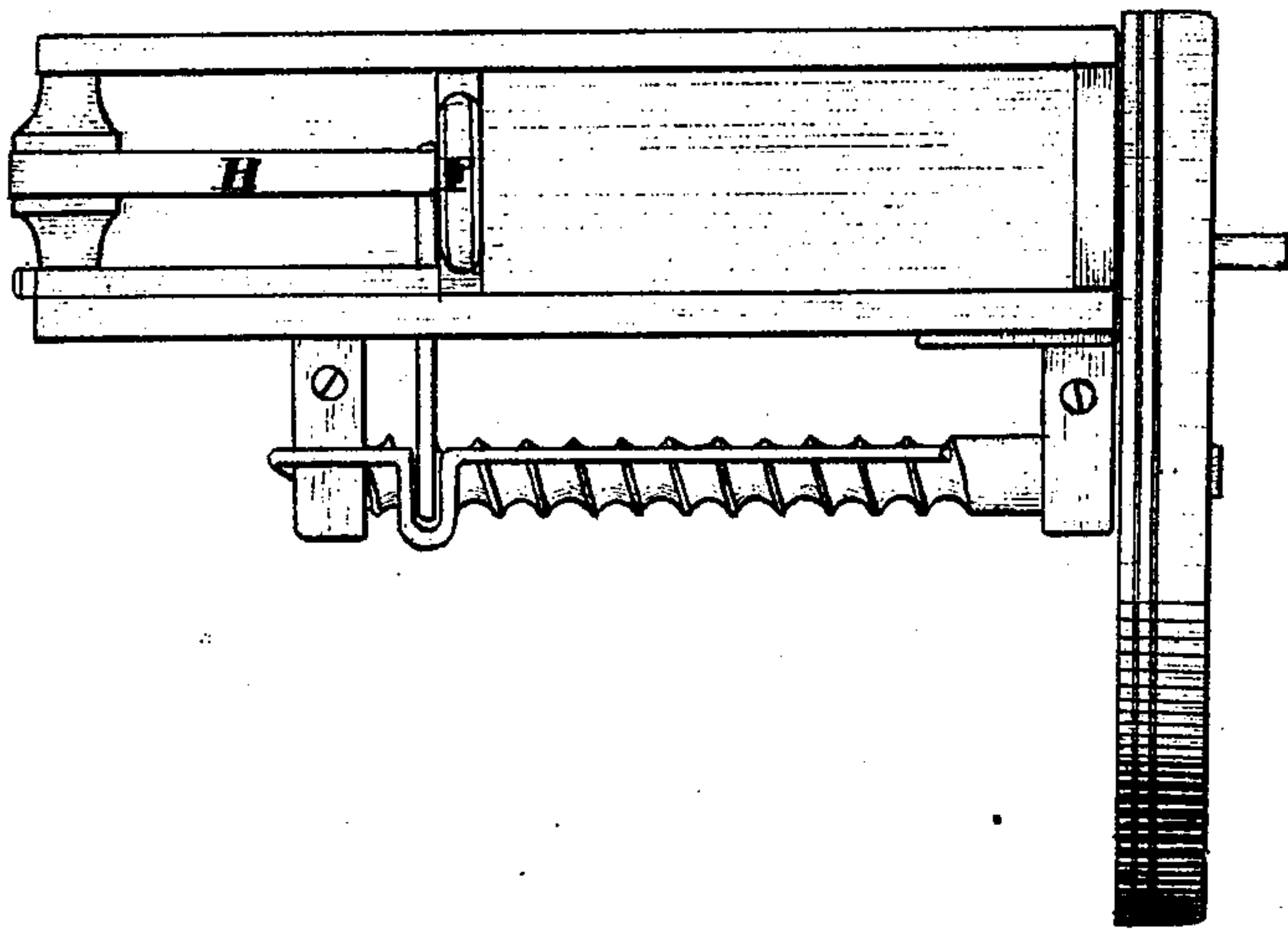
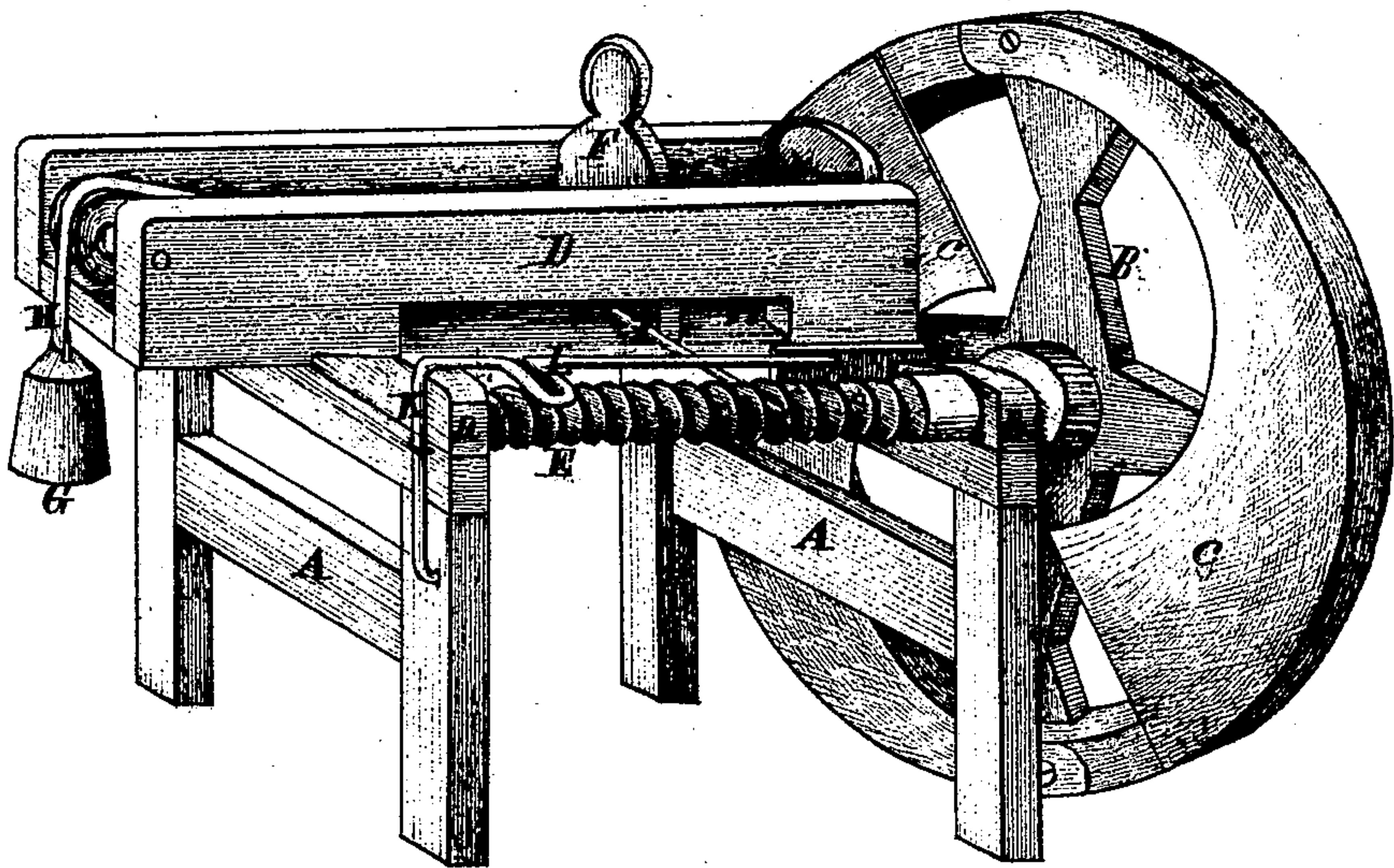


C. M. Weathers,

Straw Cutter.

No. 102,736.

Patented May 3, 1870.



Witnesses,

J. W. Master
H. A. Daniels

Inventor,
C. M. Weathers by
L. L. Whitman atty

United States Patent Office.

COLUMBUS M. WEATHERS, OF ROCHEPORT, MISSOURI.

Letters Patent No. 102,736, dated May 3, 1870.

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, COLUMBUS M. WEATHERS, of Rocheport, in the county of Boone and in the State of Missouri, have invented a new and useful Improvement in "Straw-Cutters;" and do hereby declare that the following description, taken in connection with the accompanying plate of drawings hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvement, by which my invention may be distinguished from others of a similar class, together with such parts as I claim and desire to secure by Letters Patent.

My invention relates to machines for cutting straw; and consists in certain modifications in the details of the same, by means of which a slide is made to travel automatically to and fro within the feed-box.

In the accompanying plate of drawings, which illustrate my invention and form a part of the specification thereof, and in which corresponding parts are represented by similar letters—

Figure 1 is a perspective view of a machine for cutting straw, with my invention applied thereto.

Figure 2 is a plan of the same.

The construction of my improvement is as follows: In the drawings above mentioned—

A represents the frame of the machine.

B, the cutter-wheel, with the knives *c* attached thereto.

D denotes the feed-box.

E, the shaft, to one end of which the said cutter-wheel is attached.

The said shaft has its bearings in the projecting cross-beams *a* of the frame, and upon it a worm is cut.

The box D is provided with the upright slide F, to which is attached the weight G, by means of the strap H.

To the said slide, and at right angles, is also attached the horizontal bar I, of such a length that the end thereof will rest upon the screw-shaft E.

A rod, K, is secured to the frame A, lead in a di-

rection parallel to the direction of the screw-shaft E, and terminated a short distance from the point where the worm commences upon the said shaft.

At the opposite end of the said shaft to that at which the worm commences, the rod is bent, to form an elbow, L.

The operation of my invention is as follows:

The wheel B being revolved, in the ordinary manner, at right angles to the mouth of the box, the screw-shaft E is rotated, and imparts rectilinear motion to the traveling slide F, by means of the horizontal rod I, which is held within the thread or groove of the screw-shaft by the rod L, causing the said slide to push the straw toward the mouth of the box. When the slide F has arrived at or near the mouth of the box, the rod I passes beyond the end of the guide-bar K, and, releasing itself from the thread upon the shaft, is, together with the slide, &c., forced back until it catches within the elbow L, and rests, as before, in the groove or thread of the screw-shaft, by which it is again carried forward.

Having thus described the nature, construction, and operation of my invention, I will indicate what I claim and desire to secure by Letters Patent in the following clauses:

1. In combination with the screw-shaft, the upright slide, with its horizontal bar and weight, as described.

2. In combination with the screw-shaft E, the rod L, when constructed to operate as described.

3. The combination and arrangement of the rod L, rod I, and screw-shaft E, when constructed to operate as described.

4. The combination and arrangement of the box D, slide F, strap H, weight G, and rod I, when constructed to operate as described.

In testimony that I claim the foregoing, I have hereunto set my hand this 1st day of November, 1869.

COLUMBUS M. WEATHERS.

Witnesses:

JOHN F. BRADLY,
ESQUIRE BRADLY.