T. B. SHAW.

Straw-Cutter.

No. 213,253 Patented Mar. 11, 1879.

Fig. 1.

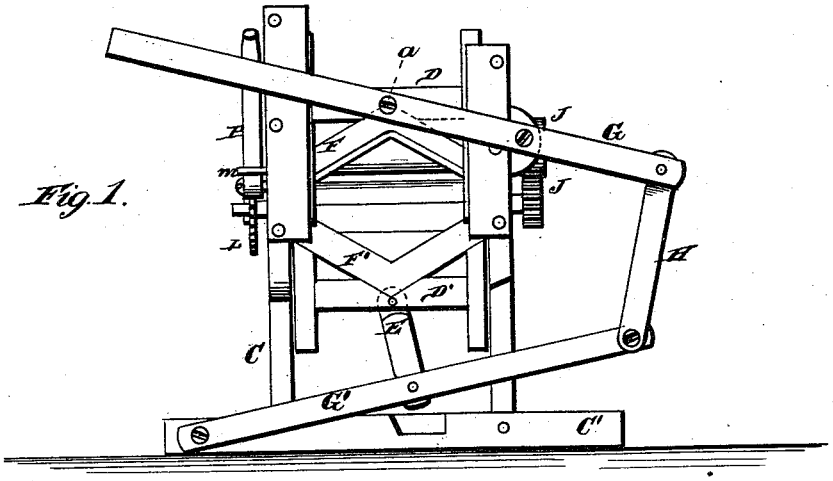


Fig. 2.

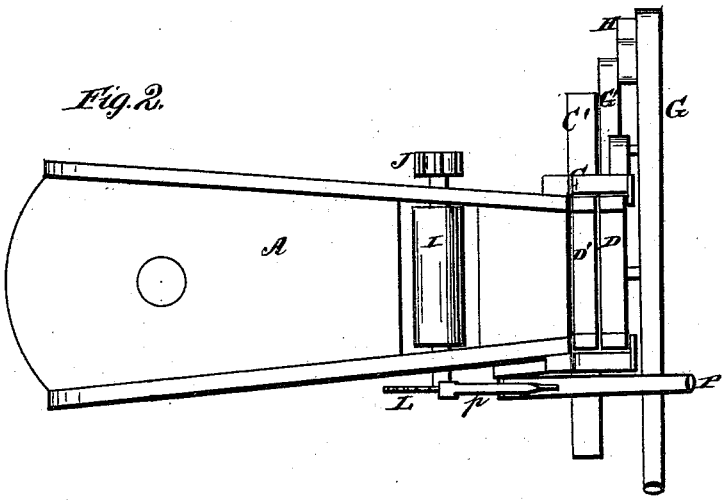
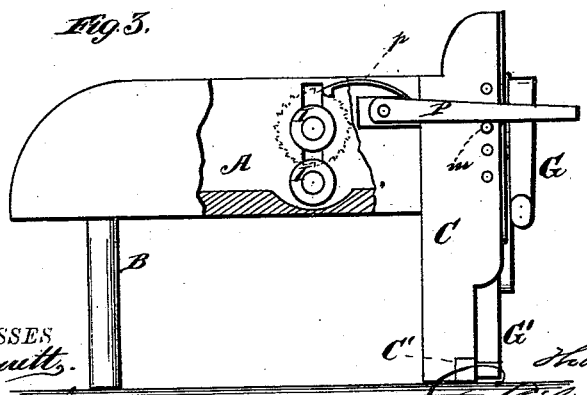


Fig. 3.



WITNESSES

Robert Ewatt.

James J. Sheehy.

INVENTOR.

Thomas B. Shaw.

By Pierce, Smith & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

THOMAS B. SHAW, OF THOMPSON, PENNSYLVANIA.

IMPROVEMENT IN STRAW-CUTTERS.

Specification forming part of Letters Patent No. **213,253**, dated March 11, 1879; application filed August 3, 1878.

To all whom it may concern:

Be it known that I, THOMAS B. SHAW, of Thompson, in the county of Fulton and State of Pennsylvania, have invented a new and valuable Improvement in Straw-Cutters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front view of my straw-cutter. Fig. 2 is a top-plan view of the same, and Fig. 3 is a view of a side elevation.

The nature of my invention consists in the construction and arrangement of a straw-cutter, as will be hereinafter more fully set forth.

The annexed drawings, to which reference is made, fully illustrate my invention.

A represents the cutter-box, supported at its rear end by a leg, B, and at its front end by a vertical frame, C, provided at its bottom with a suitable sill, C′, to make the machine stand steady.

At the front end of the cutter-box, in grooves in the side pieces of the frame, are placed two vertically-sliding frames or gates, D D′, to which the cutters F F′, respectively, are secured. These cutters are made in V form, as shown, and placed in opposite directions, as shown.

The front gate or frame, D, is connected by a pin or screw, *a*, to a lever, G, which is pivoted to the front of the frame C. The rear frame, D′, is, by a rod, E, connected with a lower lever, G′, pivoted at one end to the sill C′. The two levers G G′ are connected by a rod or bar, H, as shown, so that by operating the upper lever, G, both the frames D D′ will be operated or moved vertically in opposite directions, and the straw be cut by the knives F F′ from above and below at the same time.

In the box A are arranged two feed-rollers, I I, one above the other, geared together by cog-wheels J J on one side. At the other side is a toothed wheel, L, on the journal of the upper roller, and into this toothed wheel takes a pawl, *p*, hinged to a lever, P, pivoted to the side of the box. This lever rests on a pin, *m*, and projects over the operating-lever G. At every upward stroke of this lever the lever P is lifted, and the pawl P rotates the upper roller a certain distance, and this rotates the lower roller, so as to feed the straw forward.

In a full-sized machine springs will be arranged to hold the rollers down.

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

The combination of the geared rollers I I, toothed wheel L, pivoted lever P, with pawl *p*, and the operating-lever G, substantially as and for the purpose set forth.

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

THOMAS B. SHAW.

Witnesses:

H. K. MARKLEY,

JOHN S. CONATT.