

E. TAYLOR.
Straw Cutter.

No. 3,791.

Patented Oct. 12, 1844.

Fig. 1.

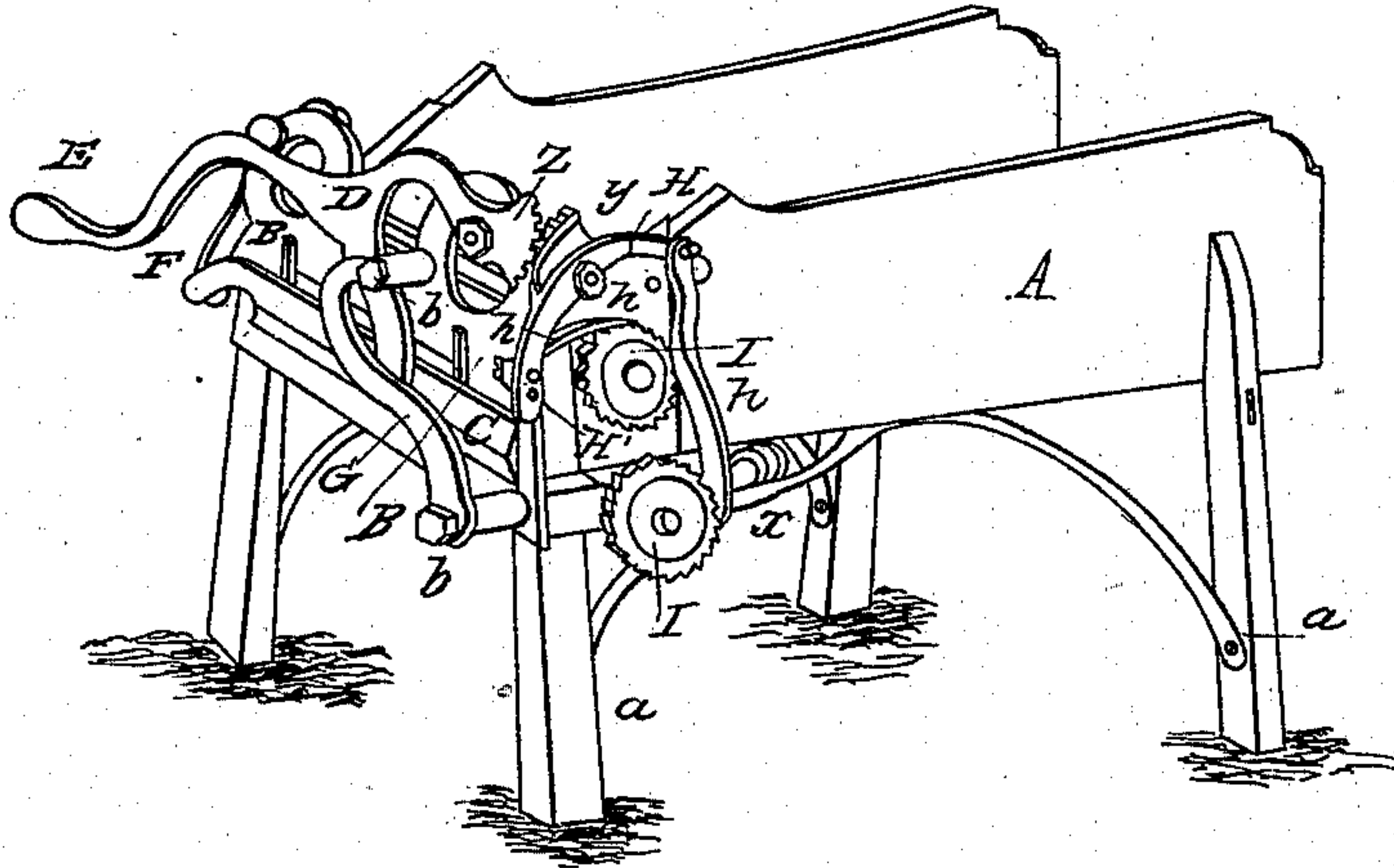
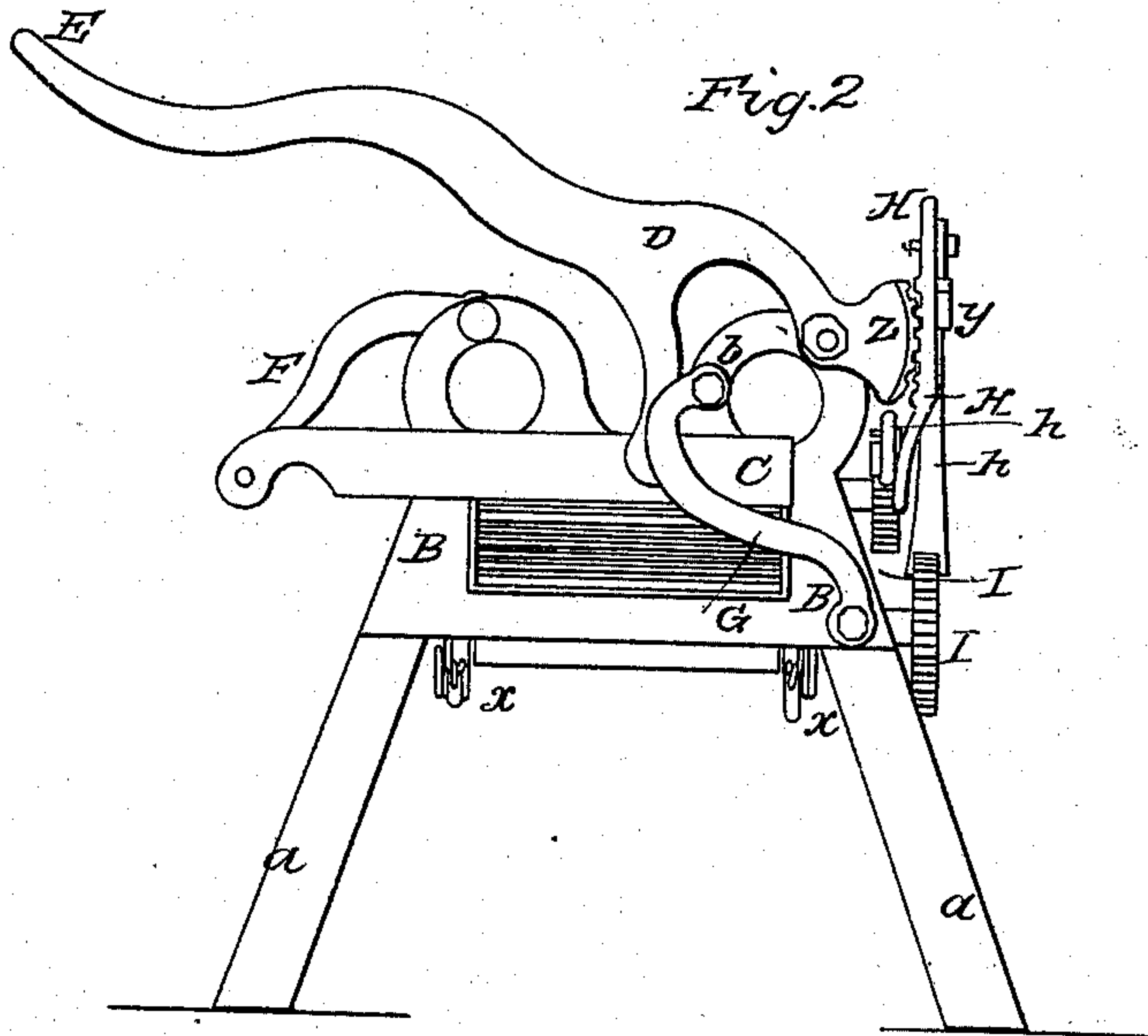


Fig. 2.



UNITED STATES PATENT OFFICE.

E. TAYLOR, OF ROCHESTER, NEW YORK.

STRAW-CUTTER.

Specification of Letters Patent No. 3,791, dated October 12, 1844.

To all whom it may concern:

Be it known that I, E. TAYLOR, of Rochester, in the county of Monroe and State of New York, have invented a new and useful
5 Improvement in Straw-Cutting Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, which forms a part of this specification,
10 in which—

Figure 1 represents a general view as shown in perspective and Fig. 2, a front view of the machine.

The nature of my improvement consists
15 in constructing a straw cutter with a straight knife so as to produce a drawing stroke down across the mouth of the machine the straw being fed in by the action of the machine at proper intervals.

20 The construction is as follows: On a suitable frame (a) is attached a horizontal trough box (A) in front of which there is a cast iron piece which may be plain or ornamented having an oblong aperture
25 therein extending across the front end of the trough and surrounded by a flanch (B) that projects outward and through which the straw is brought to be cut, the outer edge of the flanch above named is made true and
30 even and against it the knife (C) plays up and down in front of the mouth or aperture above named with a drawing stroke by means of a lever (D) which has two arms branching from it one of which is attached
35 to the frame and the other to the knife near the middle, the handle of this lever projects out horizontally at (E). On the same side as the handle and opposite to the end where the lever (D) is attached to the frame, there
40 is another lever or arm (F) to which the end of the knife is jointed that by being thus suspended moves up and down obliquely or in the segment of a circle a brace or guard (G) is put over the end of
45 the lever (D) where it joins the knife and is fixed with set screws (b) firmly to the

frame or plate (B) these serve to press the knife firmly up against the casting and make it cut smooth.

On the upper arm of the lever (D) there
50 is a small segment rack of beveled teeth (Z) this works into a similar one at right angles to it marked (y) that has two arms (H H') attached to it each of which bears an adjustable pawl (h, h') at its end that work
55 into two ratchet wheels (I) upon the axle of two feed rollers of usual construction inside the box. The upper roller is held down by being connected with a spring (x) underneath; when the machine is put in motion
60 the straw is fed in at intervals after each cut of the knife which gives a drawing cut across the straw after which the feeding rollers act and force forward the straw for
65 another cut which is repeated.

From the above description it will be obvious that as the handle of the lever (D) is worked up and down the straw will be fed into the machine and cut to any suitable
70 length.

I am aware that a shaving or sliding cut has been given to the knife by attaching each end to a connecting pendulous arm, in the manner of a parallel ruler, and therefore I wish it to be understood that I do
75 not claim this as my invention; but—

What I do claim as my invention and desire to secure by Letters Patent is—

The arrangement of the hand lever in combination with the knife so arranged as to
80 give a parallel sliding or shaving cut, and with the apparatus for feeding the straw one arm of the said hand lever constituting one of the parallel or pendulous arms of the knife and another arm being provided
85 with a segment miter wheel to operate the feeding apparatus as herein described.

E. TAYLOR.

Witnesses:

RICH'D K. WATTS,
LAFAYETTE CALDWELL.