

G. T. WRIGHT.

Straw Cutter.

No. 49,190.

Patented Aug. 1, 1865.

Fig. 1.

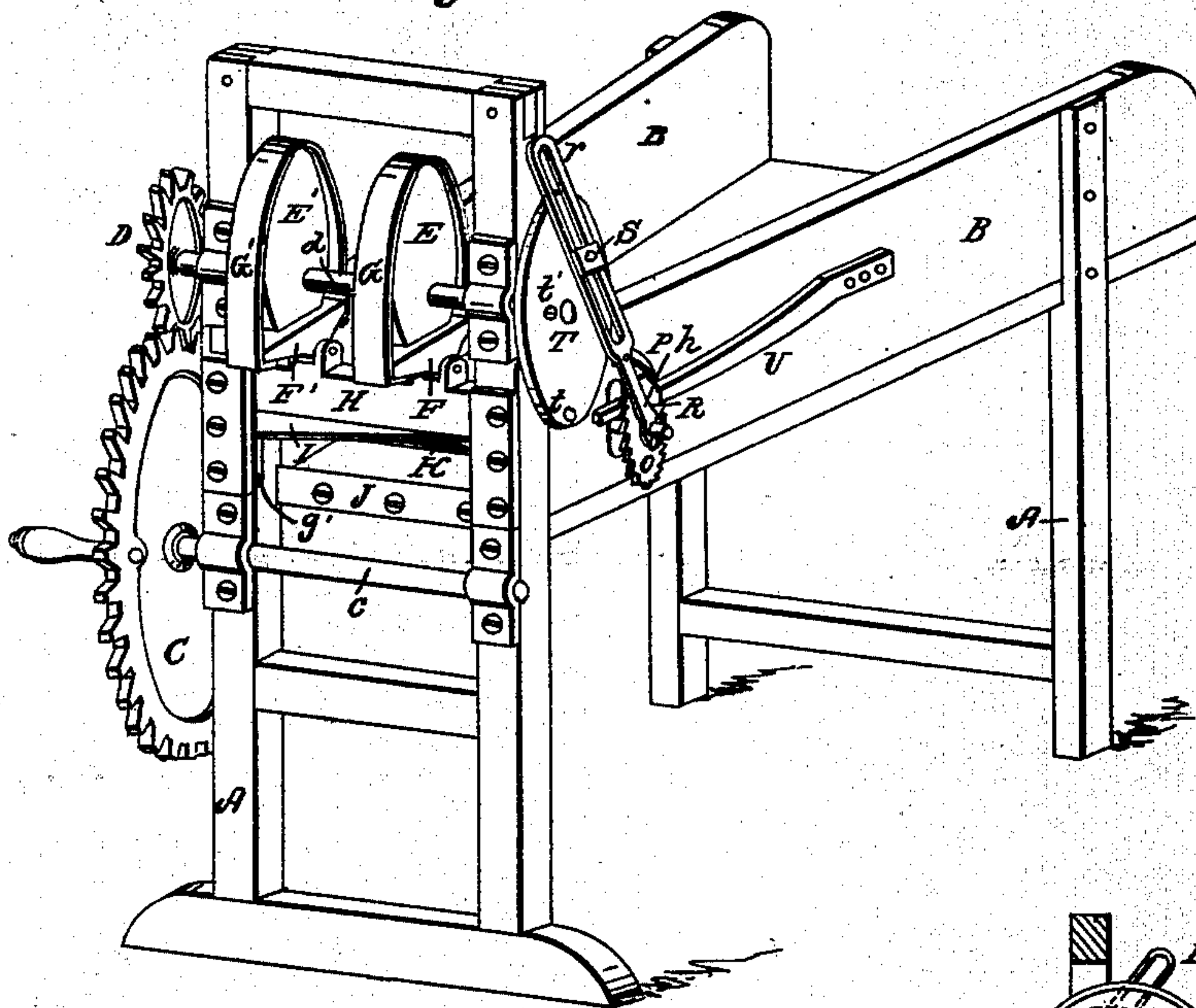
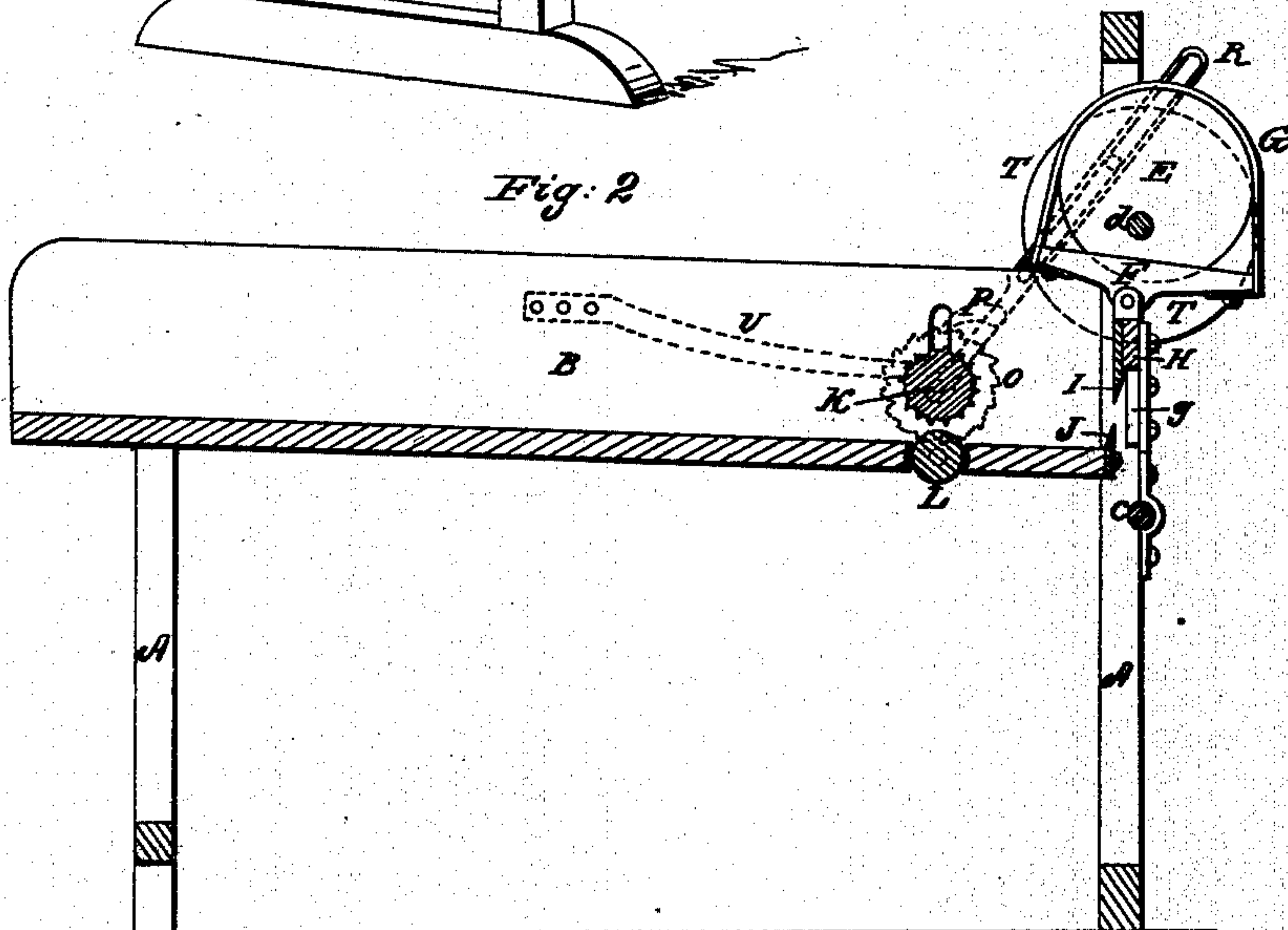


Fig. 2.



Witnesses:
James H. Gayman.
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att'y.

UNITED STATES PATENT OFFICE.

GEO. T. WRIGHT, OF CINCINNATI, OHIO, ASSIGNOR TO CHARLES W. WRIGHT.

IMPROVEMENT IN STRAW-CUTTERS.

Specification forming part of Letters Patent No. 49,190, dated August 1, 1865.

To all whom it may concern:

Be it known that I, GEORGE T. WRIGHT, of Cincinnati, Hamilton county, and State of Ohio, have invented certain new and useful Improvements in Straw-Cutters; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of a machine embodying my improvements, and Fig. 2 is a longitudinal section of the same.

A represents a frame supporting a box or trough, B, in which the straw is placed before being cut.

C is a fly-wheel attached to the shaft *c*, and gearing with a pinion, D.

The pinion-shaft *d* has firmly secured to it the eccentrics E E', which revolve in concave recesses in the vibratory cross-heads F F'.

G G' are straps which encircle the upper portions of the eccentrics E E', and are secured at both of their lower ends to the vibratory cross-heads F F', so as to form a yoke surrounding the eccentrics E E', with which they have a corresponding vibratory movement. The cross-heads F F' are pivoted at their centers to the gate H, which is confined to a vertical path by means of the grooves *g g'*.

Attached to the gate H is the knife I, which is set at a suitable angle to insure a "shear-cut" action.

J is a stationary knife secured to the bottom of the box B.

K is a corrugated feed-roller, which, in connection with the lower roller, L, serves to feed the straw between the knives I and J. The shaft of the feed-roller K has attached to it a ratchet-wheel, O, which is rotated by the pawl P.

R is a slotted arm, journaled at one end to the shaft of the feed roller K, and provided with a slot, *r*, which is traversed by the adjustable stud or wrist S.

T is a disk, having a series of apertures, *t t'*, situated at different distances from the center of the disk, and the speed of the feed-roller K is regulated by inserting the wrist S in the aperture nearest the center, or in the outer or intermediate ones, according as a slow or fast motion of the roller is desired.

U is one of two springs which press the roller K firmly down on the straw, so as to insure its receiving a positive forward motion between the knives I and J.

I claim herein as new and of my invention—

The arrangement of the ratchet-wheel O, pawl P, in combination with the slotted arm R, and perforated disk T, for graduating the rotation of the feed-roller K, in the manner described.

In testimony of which invention I hereunto set my hand.

GEORGE T. WRIGHT.

Witnesses:

JAMES H. LAYMAN,
GEO. H. KNIGHT.