

S. GABLE.  
Meat-Cutters.

No. 152,358.

Patented June 23, 1874.

Fig. 1.

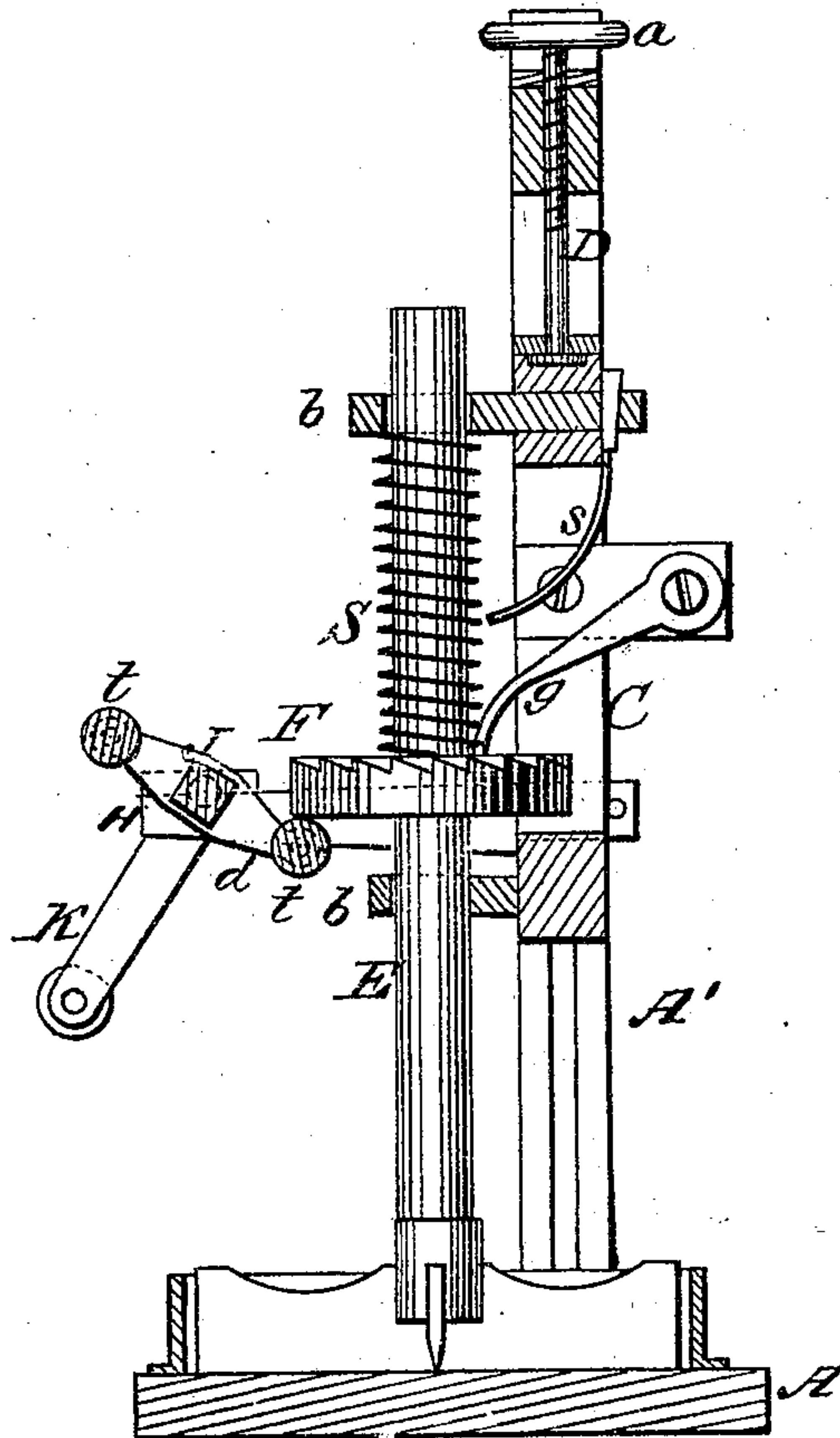
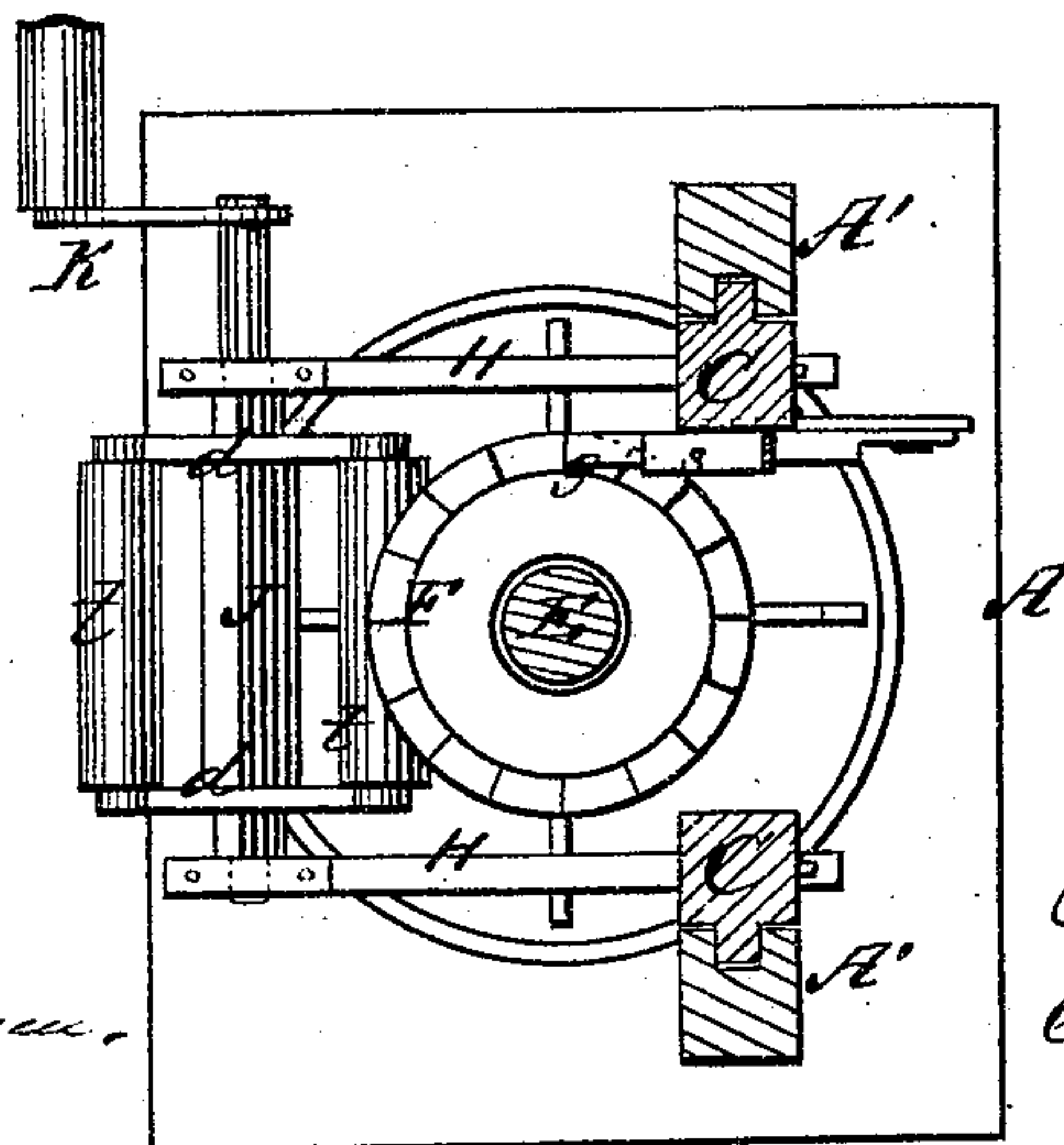


Fig. 2.



Witnesses,  
E. H. Bates.  
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# UNITED STATES PATENT OFFICE.

SAMUEL GABLE, OF MILLERSTOWN, PENNSYLVANIA.

## IMPROVEMENT IN MEAT-CUTTERS.

Specification forming part of Letters Patent No. 152,358, dated June 23, 1874; application filed April 11, 1874.

*To all whom it may concern:*

Be it known that I, SAMUEL GABLE, of Millerstown, in the county of Perry and State of Pennsylvania, have invented a new and valuable Improvement in Meat-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 drawing is a representation of a vertical section of my meat-cutter; and Fig. 2 is a horizontal sectional view of the same.

This invention has relation to machines which are designed for cutting up or mincing meat, to be used in the manufacture of sausages, and for other purposes. It consists in an intermittently-revolving shaft carrying cutters on its lower end, in combination with a spring for giving downward strokes to said shaft, and with revolving tappets for giving the upward strokes to said shaft; and also in combination with a pawl, hereinafter explained, whereby the cutters receive vertical, and at the same time rotary, movements.

In the annexed drawings, A represents the foundation, upon which rises perpendicularly a frame, A', consisting of two upright posts, grooved on their inner sides, and rigidly connected together by a cross-bar. Within this frame is applied a sash, C, which receives a vertical reciprocating motion, by means hereinafter to be explained. This sash has tenons formed on its vertical edges, which play in grooves in the upright portions of the frame A', and it is vertically adjustable in its frame by means of a screw, D, which is tapped through the cross-bar of the frame A', and which carries on its upper end a hand-wheel, a. The lower end of this screw is connected to the sash by means of a swivel. E designates a vertical shaft, which plays up and down through lugs b b, secured to the upper and lower cross-bars of the sash C. This shaft carries on its lower end horizontally-arranged radial cutters, which operate within

a receiver inclosed by a rim, which is rigidly secured to the foundation of main frame A', into which receiver the material to be cut up is put. The shaft E receives its downward strokes from a spring, S, which is compressed between the upper lug and a horizontal ratchet-wheel, F, which wheel is rigidly secured to the shaft E above the lower lug b on the sash C. This wheel has ratchet-teeth formed on its upper side, its lower side being plain, for a purpose hereinafter to be explained. The teeth of this wheel F engage with a gravitating pawl, g, which is pivoted to one of the uprights of the sash C, which pawl will impart intermittent rotary motion to the shaft E during the vertical reciprocating movement thereof. Above the pawl, and rigidly secured to the sash C, is a spring, s, which insures the quick descent of the pawl g immediately after each upward stroke of the chopper-shaft E. H H designate arms, horizontally arranged and applied to the sash C. These arms extend out from said sash on opposite sides of the ratchet-wheel F, so that this wheel can play up or down freely between them. The outer ends of these arms H H afford bearings for the ends of a shaft, J, which carries on one end a crank-handle, K. To the shaft J two arms, d d, are rigidly secured, which sustain at both ends rolling tappets t t, which, by the revolution of the shaft J, will operate on the lower plane surface of the ratchet-wheel F, and impart to the cutter-carrying-shaft E upward movements. At the same time this shaft receives its upward movements it also receives from the pawl g intermittent rotary movements.

It will be seen from the above description that by the combination of the pawl g, the spring S, the ratchet-wheel F, and the rotary tappets t t I am enabled to give vertical movements to the cutters, and, at the same time, to rotate them, thus causing them to strike new surfaces at each movement; and that while I am enabled to do this, I can, at the same time, vertically adjust the sash which supports said parts, and thus regulate the force given to the cutters.



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

1. The rotating tappets *t t*, ratchet-wheel *F*, the spring *S*, and pawl *g*, in combination with a vertically reciprocating and rotating cutter-shaft, *E*, substantially as and for the purpose specified.

2. The vertically-adjustable sash *C*, operated by means of a screw, *D*, in combination with the gravitating pawl *g* and pawl-

spring *s*, and the ratchet-wheel *F*, substantially as and for the purpose specified.

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

SAMUEL GABLE.

Witnesses:

WM. H. KNEEBONE,  
WM. COOMBE.