(No Model.)

R. A. WISEMAN.

FEED CUTTER.

No. 418,600. Patented Dec. 31, 1889.

Fig. 1.

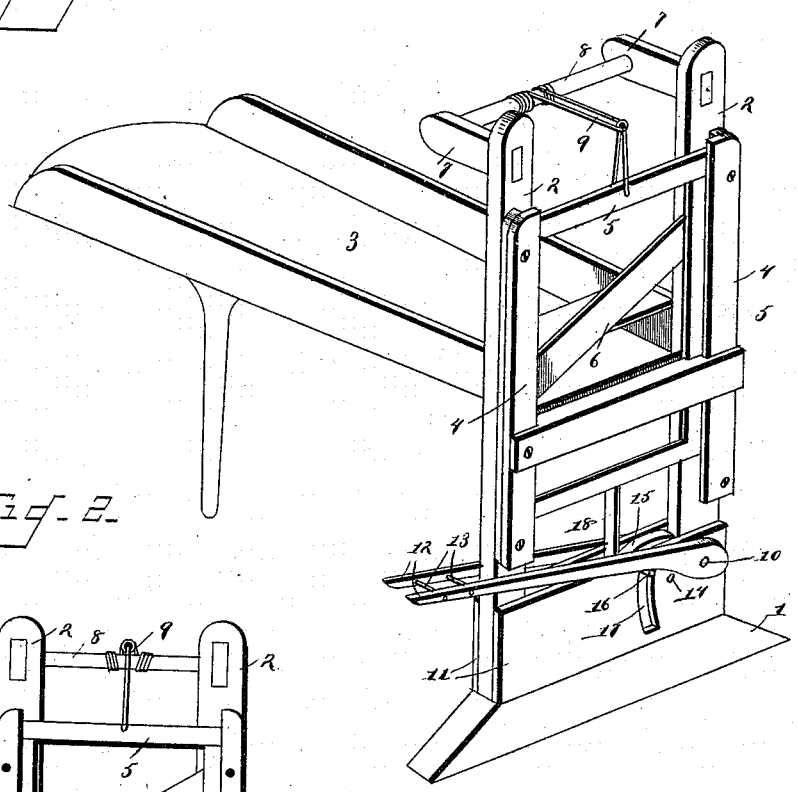


Fig. 2.

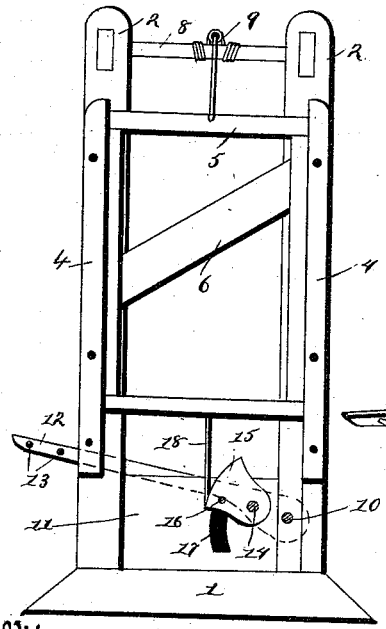
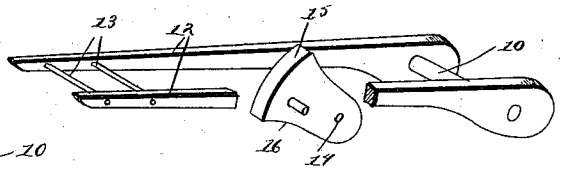


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT A. WISEMAN, OF FAIR GROVE, MISSOURI.

FEED-CUTTER.

SPECIFICATION forming part of Letters Patent No. 418,600, dated December 31, 1889.

Application filed September 14, 1889. Serial No. 323,981. (No model.)

To all whom it may concern:

Be it known that I, ROBERT A. WISEMAN, a citizen of the United States, residing at Fair Grove, in the county of Greene and State of Missouri, have invented a new and useful Feed-Cutter, of which the following is a specification.

This invention has relation to feed-cutters of that class provided with reciprocating blades; and among the objects in view are to provide a cheap and simple construction for operating said blade, all as will hereinafter appear, and be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective of a feed-cutter constructed in accordance with my invention. Fig. 2 is a front elevation, the outer plates of the knife-carrying sash-guard removed. Fig. 3 is a detail in perspective of the treadle and the sash-operating lever.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 represents the base, from the opposite ends of which rise the standards 2, which are connected by suitable tie-bars and support one end of a feed table or chute 3. Upon the face of the standards 2 are secured opposite vertical ways 4, and mounted for reciprocation in the ways is a sash 5, provided near its center with an inclined blade 6, and by reason of said inclined blade shear-like cuts are produced upon material fed through the chute. Projecting from the rear faces of the upper ends of the standards are bearing-arms 7, and mounted in the arms is a rigid shaft 8, around which are coiled the two terminals of a spring-arm 9, having an eye formed in its outer end and connected to the upper end of the sash-frame, whereby said sash is normally maintained at the upper end of the guides and with its knife above the cutting-point.

A shaft 10 is mounted transversely through the side plates 11, which connect the standards 2 just above the base 1, and upon said shaft, outside of said plates, there is mounted a pair of levers or treadle-arms 12, connected at their extremities by bolts 13, forming a treadle. Mounted rigidly upon a shaft 14, journaled in the side plates, is a lever 15, from the opposite faces of which project laterally guide-lugs 16, which protrude through the side plates and ride in slots 17, disposed in a curved manner to agree with the path traveled by the lugs in the rockings or oscillations of the lever. The lugs take under and support the treadle-arms, and by the up-and-down swing of said arms the lever will be actuated.

18 represents a flexible strap, the upper end of which is connected to the lower sash-rail, and the lower end of which is connected to the lower end of the lever.

From this construction it will be apparent that by depressing the treadle the sash will be drawn down, making a quick cut, and by relieving the treadle of the weight the return spring-arm will act to lift the sash for a subsequent depression, and in this manner quantities of feed may be quickly and conveniently cut, the machine stopping the moment the treadle is relieved.

Having described my invention, what I claim is—

1. In a feed-cutter, the combination, with a sash mounted in guides, a return-spring connected with the upper end of the sash, a loosely-mounted pulley arranged below the sash, a strap connecting the sash with the lever, and a treadle-lever for operating said lever to wind the strap thereon, substantially as specified.

2. In a feed-cutter, the combination, with the guides, a sliding sash mounted therein, and a return-spring for elevating the sash, of a lever mounted upon a shaft below the sash, a flexible strap connecting the pulley and sash, lugs extending from the lever, and a lever pivoted to the cutter-frame below the sash and extending over the lugs and adapted to operate the pulley, substantially as specified.

3. In a feed-cutter, the combination, with the posts, opposite ways secured to the front face of the same, and a sliding sash carrying a knife mounted in the ways, of a retracting-spring for the sash, side plates secured to the

post and provided with curved slots, opposite levers journaled in the plates and connected at their outer ends to form a treadle, and a lever pivoted between the plates and provided with the lugs riding in the slots and extending under the levers, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ROBERT A. WISEMAN.

Witnesses:
D. R. CRANE,
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