J. R. Whittemore,

Feed Cutter.

No. 111,594. Patented Feb. 7. 1871.

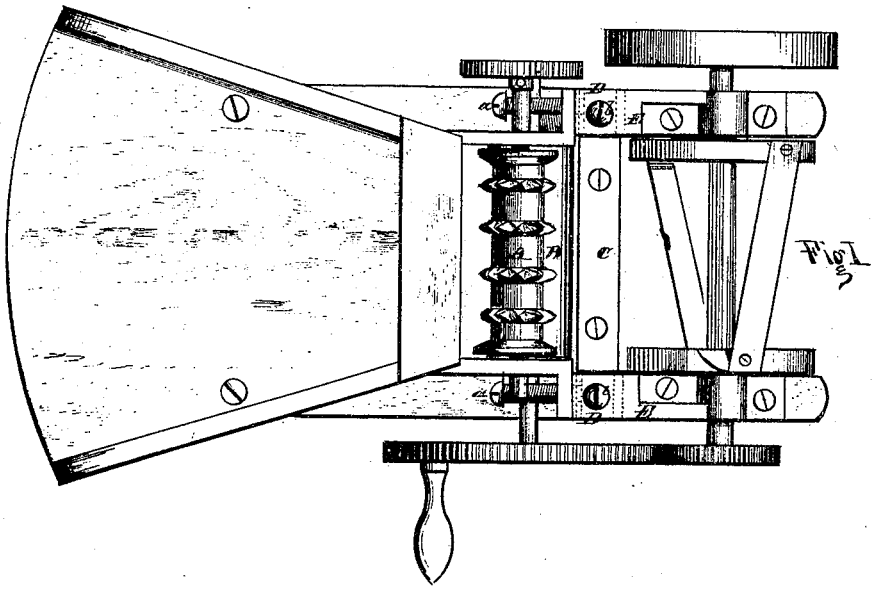


Fig. II.

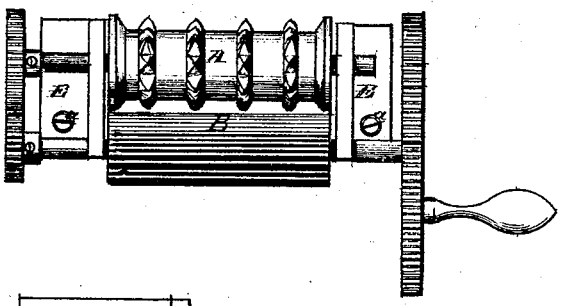
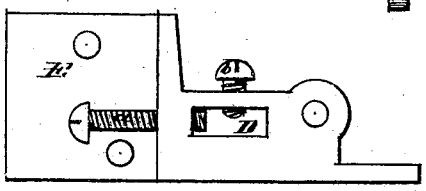


Fig. III.



Inventor

John R. Whittemore
by his attorneys
Gardiner & Hyde

Witnesses.

Roswell Lee
E. Dudley Chapin

United States Patent Office.

JOHN R. WHITTEMORE, OF CHICOPEE FALLS, MASSACHUSETTS.

Letters Patent No. 111,594, dated February 7, 1871.

IMPROVEMENT IN FEED-CUTTERS.

The Schedule referred to in these Letters Patent and making part of the same.

I, JOHN R. WHITTEMORE, of Chicopee Falls, in the county of Hampden, Commonwealth of Massachusetts, have invented certain Improvements in Feed-Cutters, of which the following is a specification.

Nature and Object of the Invention.

My invention relates to the combination, with the feed-rollers and their adjustable gearing, the knife-plate and its bed, and with the knife-arbor, of the iron side frames, each being cast in one piece with slot for reception of end of ledger blade-bed, and bearings to receive adjusting screws and shafts of feeding-rollers and knife-arbor, so that one size of casting will do for any-size machine.

Description of Accompanying Drawing.

Figure I is a plan view of a machine embodying my invention;

Figure II, an end view of the feed-rollers with the variable gearing; and

Figure III is a side view of one of my side frames cast in one piece.

General Description.

The hay, straw, or whatever it may be desired to cut, is passed through the rollers A B. The upper one, A, being corrugated or provided with projections upon its surface, it is evident the speed with which the substance to be cut is supplied to the knives depends upon the rapidity with which the roller A revolves, the lower roller B acting only as a revolving surface to prevent friction, and the faster the straw is pushed by the action of roller, the further it will be carried past the cutting-edge of the knife-plate C in the interval of one knife passing it until another comes around, and, consequently, the longer.

The ends of the knife-plate bed are let into slots D D in the side frames E E, and are adjusted by set-screws *a a*, working in the frame laterally, and screws *b b* vertically, so that they can be moved to a required distance from the knives and secured in that position.

I cast my side frames E E of one piece, with the necessary slot, screw-holes, and bearings for shafts, which is a great advantage, as the frames can by this means be much more substantially constructed to resist the vibration of the operating parts, the machine can be more compactly made, and the same side frames will do for any-size machine, as the size depends upon the length of the knives and feeding-rolls.

Claim.

The arrangement of the iron side frames or journals E E, cast in one piece and having journals for the rollers A B and shaft carrying the cutting-knives, and slots D D for the reception of the end of the bed-plate C, with screw-holes for the adjusting screws *a a* and *b b* that regulate the same, substantially as shown and described.

JOHN R. WHITTEMORE.

Witnesses:

R. F. HYDE,

E. V. SMITH.