

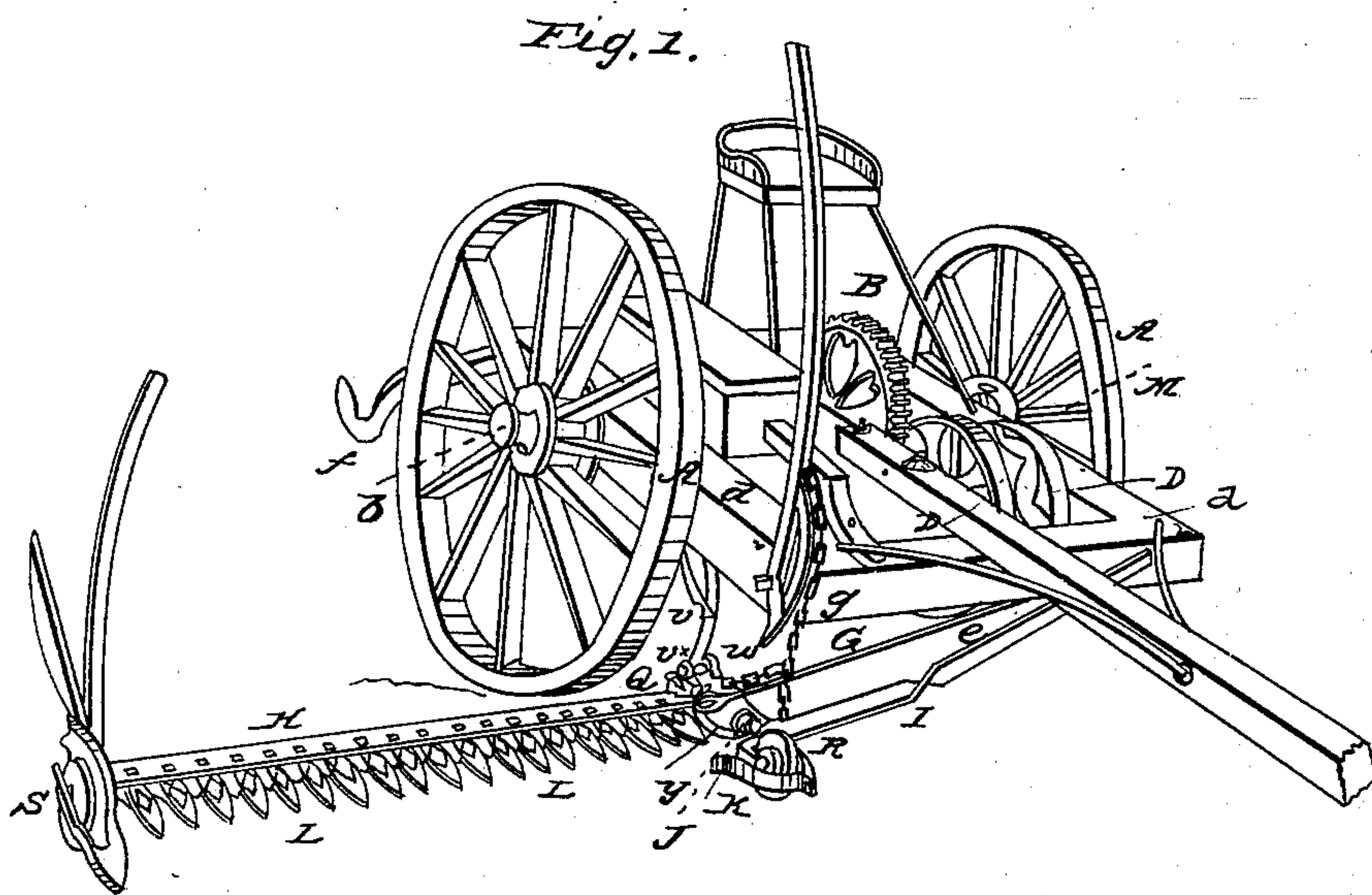
H. K. BURNETT,

Harvester.

2 Sheets—Sheet 1

No. 80,272.

Patented July 28, 1868.



Witnesses:
John H. Austin
Alexander J. Bennett

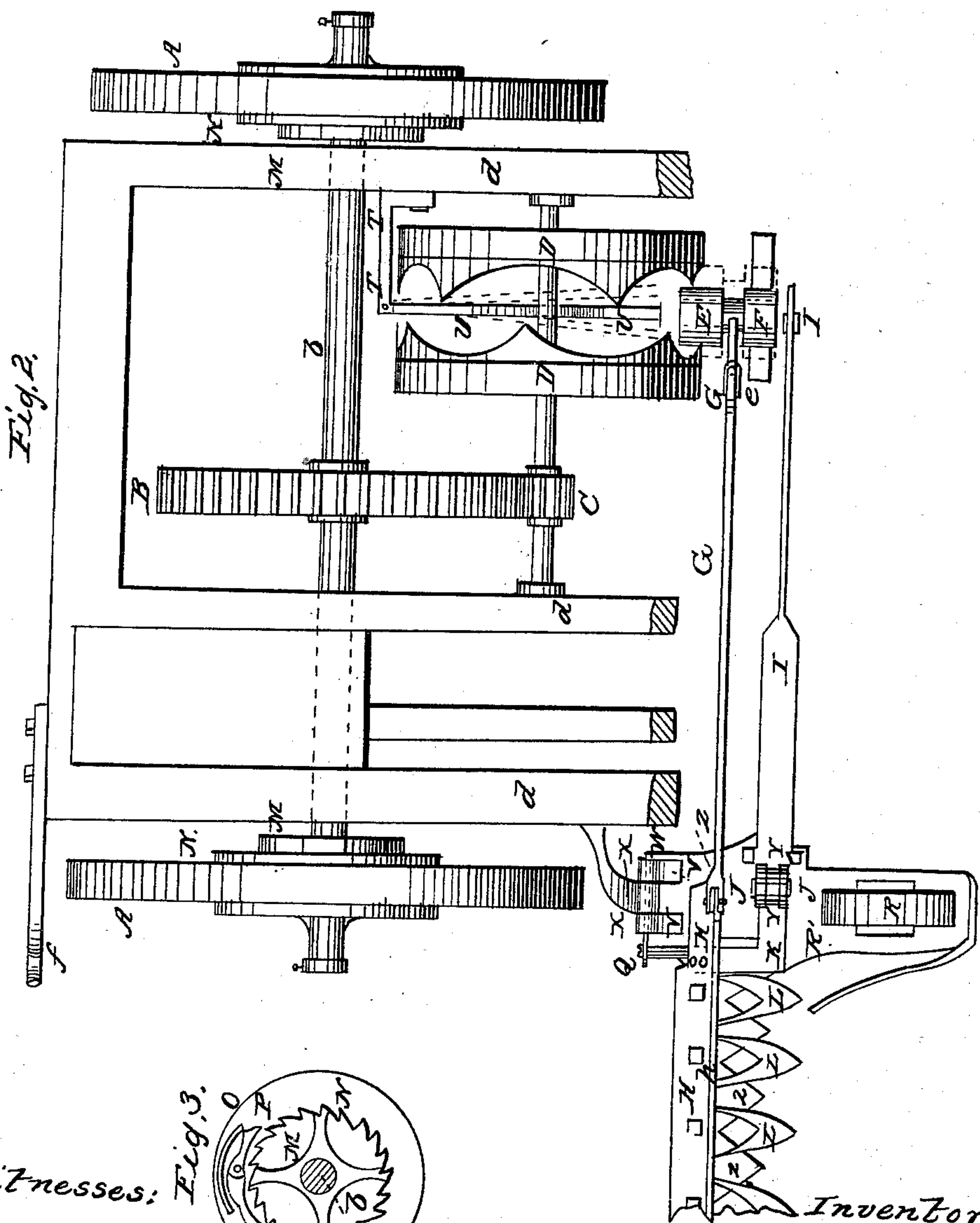
Inventor:
Henry H. Burnett

H. K. BURNETT.

Harvester.

No. 80,272.

Patented July 28, 1868.



Witnesses: *Fig. 3.*
John, H. Huston
Alfred H. Hetcher

Inventor:
Henry K. Burnett

UNITED STATES PATENT OFFICE.

HENRY K. BURNETT, OF POUGHKEEPSIE, NEW YORK.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. 80,272, dated July 28, 1868.

To all whom it may concern:

Be it known that I, HENRY K. BURNETT, of Poughkeepsie, in the county of Dutchess and State of New York, have invented and made a certain new and useful Improvement in Mowing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1 is a perspective view of the said mowing-machine. Fig. 2 is a plan of the same, with the tongue, seat, and part of the frame removed; and Fig. 3 is an elevation of the ratchet-wheel and spring-pawl upon the axle.

Similar marks of reference denote the same parts.

In my mowing-machine, a reciprocating movement is given to the cutter-bar by a vibrating lever-arm between zigzag cams, that face each other, and are revolved by gearing to the axle of the main wheel. The shoe at the inner end of the finger-bar runs upon a wheel, and the finger-bar is hinged to the same in such a manner that the said finger-bar can be turned over and lie parallel, or nearly so, to the face of the wheel.

In the drawing, A A are the main wheels upon the axle *b*, but loose thereon, and M M are ratchet-wheels fastened on the axle *b*; and P is a pawl on the hub-plate N, acted upon by the spring O, (see Fig. 3,) so that the machine may be turned around or backed, as usual, but that the axle *b* will be rotated when the machine is drawn forward.

Upon the axle *b* is a wheel, B, gearing into the pinion C, the shaft of which is supported in the frame *d*, and upon said shaft are the cylindrical cams D D, with scalloped edges, sitting opposite to each other, the undulation on one cam coming opposite the projection upon the other, so that a zigzag opening is produced, and in this lies the roller E upon the arm U that has its fulcrum in the standard T. The distance between the cams D D is such that the arm U lies freely between said cams, and is rapidly vibrated by their action upon the roller E.

The outer end of the arm U is supported by a friction-roller, F, against the under side of the frame *d*.

G is the pitman, extending from the vibrating arm U to the cutter-bar *h* and cutters *i*.

H is the finger-bar having the fingers L L. S is a shoe and track-clearer at the outer end of the finger-bar H, as usual.

The inner end of the finger-bar H rests upon and is bolted to the right-angle bar K, the forward part of which is united to the shoe R' by means of a joint formed by the flanges or ears Y Y and pin T. The shoe R' runs upon the wheel R, and the back end of the shoe R' is connected by the joint ears V V and pin W to the arm X that extends below the frame *d*, and the bar K is united at its back end by an eye to an eye on the end of the pin W, so as to form a swivel-joint, as at Q.

The shoe R' and cutter-bar move upon the joint V W to accommodate inequalities in the surface of the ground.

The pitman G is formed with a joint at *e* that connects the same with the outer end of the arm U, and the joint *l* to the cutter-bar *h* is provided with a removable pin, which is to be taken out, and also the pin J, when the finger-bar is swung around upon the joint Q and laid into the crotch-bar *f* that extends from the back part of the frame *d*, and supports said finger-bar at the side of the wheel A.

The shoe R' and finger-bar H may be raised, if desired, by the lever-segment and chain *g*, Fig. 1. The brace I, extending from the frame *d* to the shoe R', steadies that shoe, and a slot in said brace, at the point where it is bolted to the frame, allows the shoe R' to be lifted.

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

1. The cams D D rotated by the gearing B C, in combination with the arm U, roller E, and jointed pitman G, connecting the arm U to the cutter-bar *a*, substantially as set forth.

2. The bar K at the end of the finger-bar H, and jointed at Q to the shoe R' and arm X, as and for the purposes set forth.

3. The shoe R' jointed to the arm X, in combination with the slotted brace I, finger-bar H, and cutters *i*, arranged and operating as and for the purposes set forth.

HENRY K. BURNETT.

Witnesses:

JOHN H. AUSTIN,

ALEXANDER FITCHETT.