

W. B. GROSH.
GRINDERS FOR MOWERS.

No. 174,729.

Patented March 14, 1876.

Fig. 1

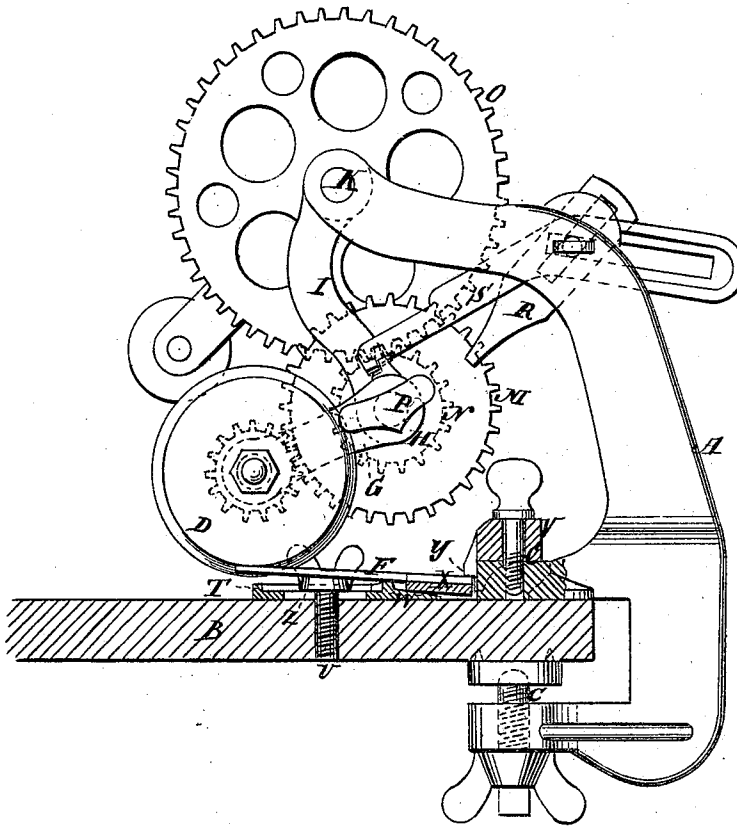
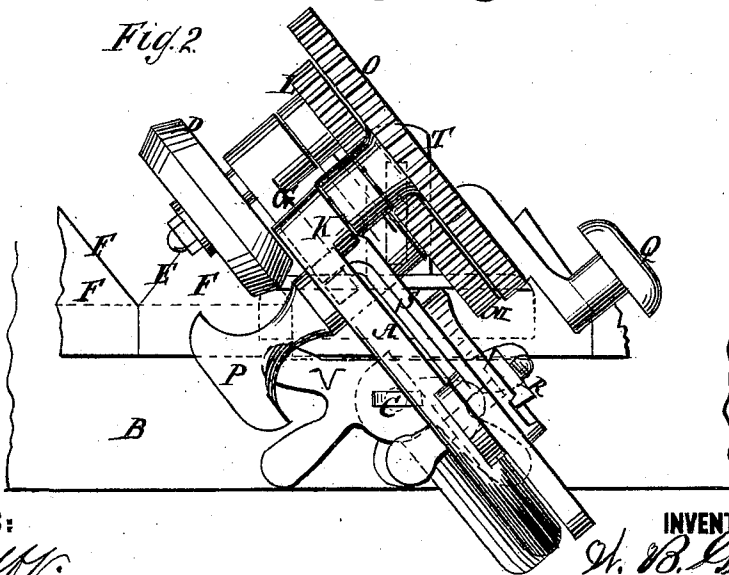


Fig. 2



WITNESSES:

E. Wolff.
J. Goethals

INVENTOR:

W. B. Grosh

BY

mmu

ATTORNEYS.

UNITED STATES PATENT OFFICE.

WALTER B. GROSH, OF READING, PENNSYLVANIA.

IMPROVEMENT IN GRINDERS FOR MOWERS.

Specification forming part of Letters Patent No. **174,729**, dated March 14, 1876; application filed December 27, 1875.

To all whom it may concern :

Be it known that I, WALTER B. GROSH, of Reading, in the county of Berks and State of Pennsylvania, have invented a new and Improved Grinder for Mower and other Cutters, of which the following is a specification :

The invention consists of a supporting-frame for the grinding-wheel, fixed on pivots so as to shift readily to let the stone run in different angles of the opposite edges of the cutters, and having articulations whereby the grinding-wheel may be moved forward and backward along the edges of the cutters at the same time that it is rotated for grinding them ; and it also consists of a clamp of a novel contrivance for holding the cutter-bar so as to adapt the face of the grinding-wheel to edges of different bevels, all as hereinafter described.

Figure 1 is a sectional elevation of my improved machine, and Fig. 2 is a plan view.

Similar letters of reference indicate corresponding parts.

A is the supporting-frame, which is mounted on a table, B, or other approved support, by the clamping pivot C, so that the top, which stands over the top of the table, can be inclined to the right or left, as represented in Fig. 2, for adjusting it, so that the grinding-wheel D may swing in the line of either edge E of the cutters F, the said wheel being mounted in the free end of the arm G, which is jointed, at H, to the face-end of another arm I, which is jointed, at K, to the top of the stationary part of the frame. The grinding-wheel is geared by its pinion L and a wheel, M, and pinion, N, with the driving-wheel O, the driving-wheel and the pinion N and wheel M being pivoted at the joints of the arms G and I, so as to gear properly with the grinding-wheel as it swings along the edges of the cutters. The wheel D rests on the cutter-edges as it revolves, and is moved

forward and backward by one hand of the operator on the handle P, while he turns the driving-wheel by the other hand on the crank Q. The adjustable stops R and S arrest the movements of the grinding-wheel at the ends of the cutter-edges.

The holder for the cutters consists of the clamp T, fastened to the table by the screw U, and the clamp V, mounted on the upper pivot-screw C. Clamp I has the beveled face W, on which the cutter-bar X rests, and clamp V has two lugs or shoulders, Y, which press down on the top of the cutter bar at the back edge and hold it fast. The bevel-edges of the cutters are adjusted to correspond with the bevel face or faces of the grinder-wheel by inclining the cutters relatively to the horizontal plane more or less. The clamp T is shifted toward and from the other clamp to assist in holding the cutters at any inclination, and for that purpose it has a long slot, Z, for its fastening-screw.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The articulated supporting-frame A I G, driving-wheels O, M, N, and L, and the grinding-wheel, combined and arranged substantially as specified.

2. The frame A I G and the grinding mechanism combined with a clamp-holder for the cutter-bar, substantially as specified.

3. The combination of the adjusting-stops R S with the swinging grinding-wheel D, substantially as specified.

4. The adjustable clamp T, having inclined face W, in combination with the clamp V, substantially as specified.

WALTER B. GROSH.

Witnesses:

J. ROSS MILLER,
WM. MILLER.