

(No Model.)

H. RUSCHENEK.

GRAIN WHEEL FOR MOWING MACHINES.

No. 346,443.

Patented July 27, 1886.

Fig. 1.

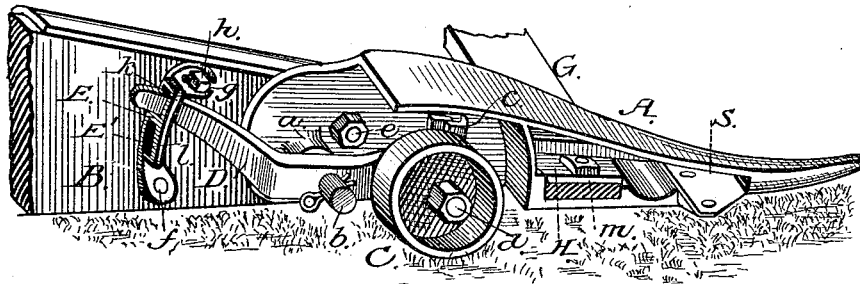


Fig. 2.

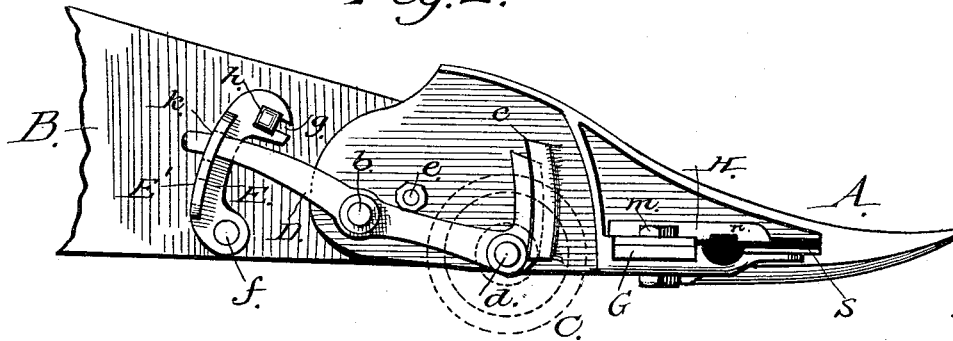
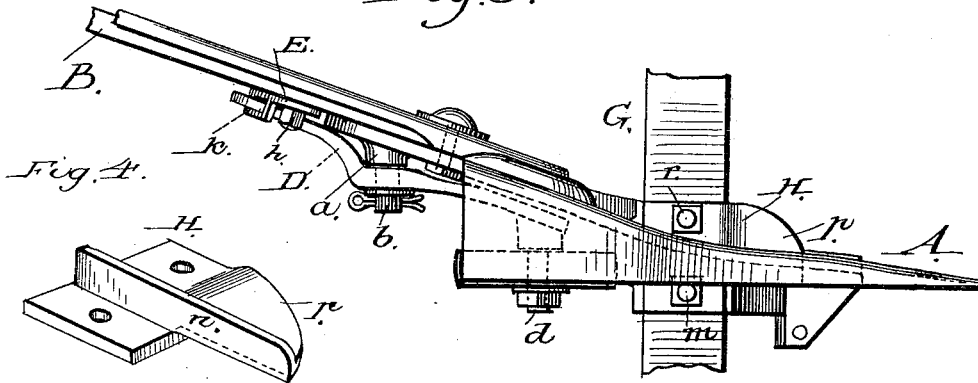


Fig. 3.



Witnesses

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GRAIN-WHEEL FOR MOWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 346,443, dated July 27, 1886.

Application filed November 11, 1885. Serial No. 182,488. (No model.)

To all whom it may concern:

Be it known that I, HENRY RUSCHENEK, a citizen of the United States, residing at Brockport, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Grain-Wheels for Mowing-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a perspective view showing the track-clearer and outside shoe of a mowing-machine with my improvements attached. Fig. 2 represents a side elevation of the same with the supporting-wheel removed. Fig. 3 represents a plan view. Fig. 4 is a detail illustrating in perspective the clip H.

My invention relates to certain improvements adapted to the outside shoe and track-clearers of mowing-machines; and the same consists in the construction and combination of devices, as well as in certain details, all of which will be hereinafter described, and specifically pointed out in the claims.

To enable others skilled in the art to make and use my invention, I will now describe its construction and the manner in which I have carried it out.

In the said drawings, A represents an outside shoe, and B the track-clearer, of a mowing-machine. The rear of the shoe is provided with a boss, *a*, having a pin or bolt, *b*, which furnishes a fulcrum for a lever, D, which adjusts the position of the supporting-wheel C, as I shall hereinafter describe. The forward end of the lever D is formed on the arc of a circle, and moves freely within a curved guide-plate, *c*, cast on the outer face of the shoe, and a bolt, *d*, projecting from the forward end of the lever, acts as a shaft or bearing for the supporting-wheel C.

The track-clearer B is pivotally secured to the shoe at *e*, and is provided with a plate, E, pivoted at one end to the track-clearer at *f*, its opposite end being slotted at *g* to receive a bolt or set-screw, *h*. The plate E also has an extension or rack, E', provided with openings *k l*.

When the end of the lever D is placed in the upper opening, *k*, it will raise the front of the shoe and the sickle to about the high-

est cutting distance from the ground, which is about five inches, but permitting the track-clearer, by reason of its pivoted connection with the shoe, to remain in its normal position on the ground. When the end of the lever is placed in the lower opening, *l*, the shoe and cutters are lowered, and in a position in which it is preferred to use the machine for cutting grass.

The forward portion of the shoe is provided with the usual means for sustaining the finger-bar G and guiding the movements of the cutters, and to the finger-bar I secure a clip, H, of peculiar construction, which is designed to close or nearly close the space in the rear of the cutter between the finger-bar and lower face of the slot S, thereby preventing the grass or other material from clogging and interfering with the successful working of the cutters. This clip H is bolted to the finger-bar at *m*, and is provided with an upwardly-extending flange, *n*, adapted to close the open space between the shoe and finger-bar, thereby preventing clogging, and an angular extension, *p*, which passes through the slot S, lying closely against the face of the cutters, and being secured to the finger-bar at *r* on the opposite or inner side of the shoe.

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

1. The shoe A and the wheel C, in combination with a lever fulcrumed upon said shoe, and having said wheel mounted on its forward end, a track-clearer pivoted to the inner side of said shoe, and a pivoted plate or rack for engaging and holding the rear end of said lever, whereby the forward portion of the shoe is elevated or depressed, substantially as described.

2. The shoe A and the track-clearer B, pivoted to its rear, in combination with a means for elevating and depressing the forward end of the shoe, comprising a lever fulcrumed upon the rear of the shoe, and having a curved forward end, a curved guide for said end, a wheel mounted upon a bolt projecting from said lever, a plate or rack pivoted to the track-clearer, and provided with openings which are engaged by the rear end of said lever, substantially as herein described.

3. The combination, with the shoe and the

finger-bar of a mowing-machine, of the clip
H, having a forward extension, *p*, and an up-
wardly-extending flange, *n*, formed upon the
outer edge of said extension, substantially as
5 herein described.

4. In a mowing-machine, the supporting-
wheel, the shoe, the track-clearer pivoted
thereto, and a lever fulcrumed upon the shoe
and provided with a curved end, and journal
10 for the supporting-wheel, in combination with

a curved guide for the forward end of the
lever, a plate pivoted to the track-clearer,
and provided with an extension or rack, where-
by the lever is adjusted, and a set-screw for
securing the upper end of the plate, substan- 15
tially as herein described.

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Witnesses:

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