

JAMES TIMMS.

Improvement in Track Clearers for Mowing Machines.

No. 121,300.

Patented Nov. 28, 1871.

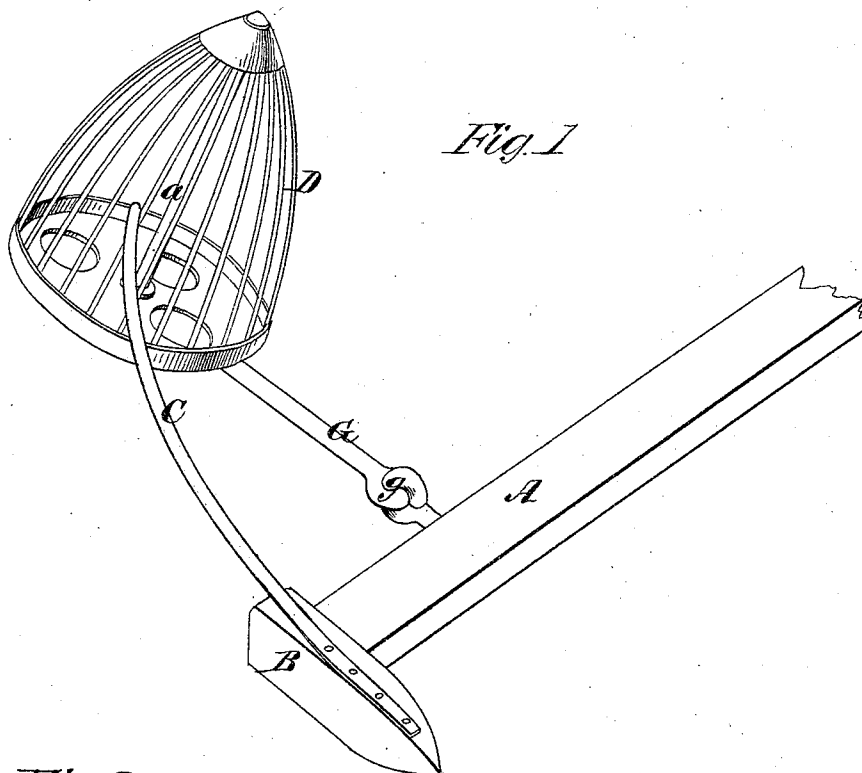
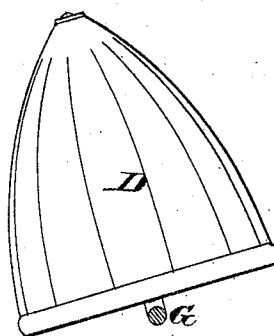
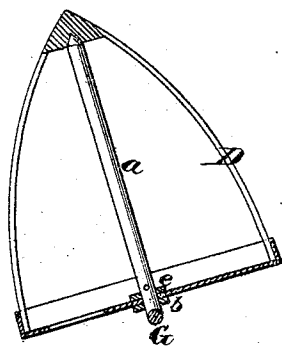


Fig. 1

Fig. 2

Fig. 3



Witnesses.
R. H. Campbell.
J. N. Campbell.

Inventor
James Timms
by
Mason, Fenwick & Lawrence.

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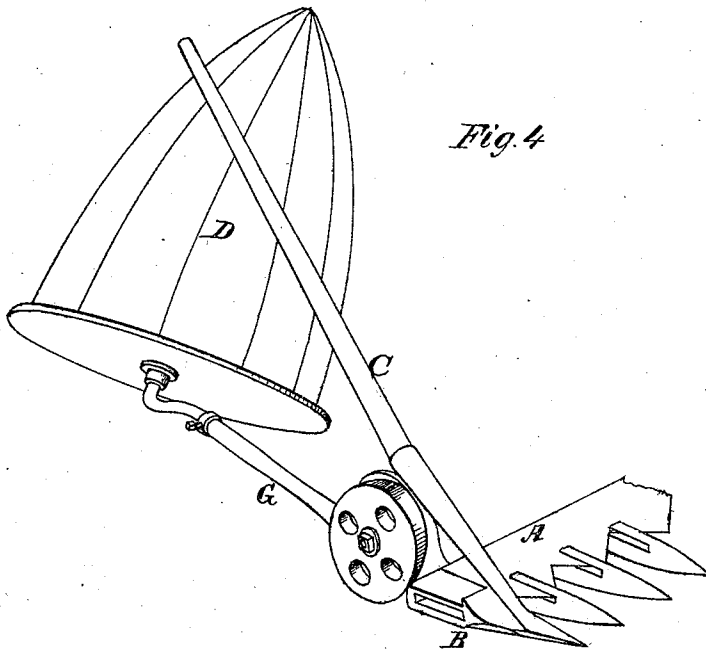


Fig. 4

Witnesses.
R. Campbell.
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UNITED STATES PATENT OFFICE.

JAMES TIMMS, OF MALTA, OHIO.

IMPROVEMENT IN TRACK-CLEARERS FOR MOWING-MACHINES.

Specification forming part of Letters Patent No. 121,300, dated November 28, 1871.

To all whom it may concern:

Be it known that I, JAMES TIMMS, of Malta, in the county of Morgan and State of Ohio, have invented a new and Improved Track-Clearer; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a perspective view of the improved track-clearer attached to the finger-bar of a harvester. Fig. 2 is a sectional view of the track-clearer. Fig. 3 is an external view of a close clearer.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to an improvement in track-clearers for harvesting-machines; and has for its object a more perfect separation of the cut product from that which is left standing by the employment of an inclined rotating clearer, which is connected to the finger-bar near the outer divider so as to roll on the ground and accommodate itself to the undulations thereof, as will be hereinafter explained.

The following description of my invention will enable others skilled in the art to understand it.

In the accompanying drawing, A represents the finger-bar of a harvester, and B the outer shoe or divider, both of which parts may be constructed in the usual well-known manner. To the rear edge of the finger-bar A a drag-rod, G, is connected by means of a joint at *g*, and rising from the rear end of this rod is an inclined axis, *a*, on which is placed the track-clearer D. This track-clearer rests upon a collar, *b*, and is held down thereon by means of a washer and pin *e*, or in any other suitable manner, which will allow the clearer to turn freely. In Figs. 1 and 2 I have represented the clearer of a conical form, which form I prefer to adopt, although it may be cylindrical. It is also represented made of rods, secured at their lower ends to a base piece and at their upper ends to an apex piece. In Fig. 3 I have shown the cone made of wood with a fluted or corrugated surface. The point of attachment of the clearer-rod G to the finger-bar A is a little to the inside of the shoe B, and a curved divider-rod, C, which is secured to the

shoe B and extended inward and backward, directs the cut product against the surface of the clearer D, which latter, by its rotation, will lay the product evenly over upon the swath. The clearer has its axis inclined from its base inward toward the draft-frame for the purpose of causing the part of the clearer nearest the finger-bar to revolve directly inward, and thus cause the cut product to lean and be carried in that direction. The curved divider C operates as a support for the cut product, as well as a guide for it, to keep it from falling until the clearer is brought in contact with it; and this divider C also allows the clearer to be arranged so far inward that it will not be arrested in its rotation by the standing product.

If desirable, the lower end of the axis *a*, around which the clearer turns, may be fitted into a socket formed on the rear end of the rod G and held fast by a set-screw. This will allow the axis *a* to be adjusted and set at different angles of inclination, as may be required.

In Fig. 4, Plate 2, I have shown a closed clearer, D, and also a wheel for supporting the outer end of the finger-bar A. This closed clearer has a flanged base, the periphery of which rolls on the ground.

I am aware that conical track-clearers are not new, such being shown in the patent granted to N. Stonecipher July 7, 1868; but I am not aware that such track-clearers have ever been applied to revolve by contact of one portion of the base thereof with the ground while the apex or other end of the track-clearer is in the position with respect to the base thereof shown in my drawing.

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

1. The track-clearer D applied to revolve by contact of a portion of its base with the ground upon an axis inclined from its base inward toward the frame of the machine, substantially as herein described and shown.

2. The track-clearer D, applied as described and shown, in combination with the curved divider C, as set forth.

JAMES TIMMS.

Witnesses:

ARTHUR POND,
ALBERT CLARKE.

(74)