

(No Model.)

C. W. CHENEY.

LAWN MOWER.

No. 342,900.

Patented June 1, 1886.

Fig. 1.

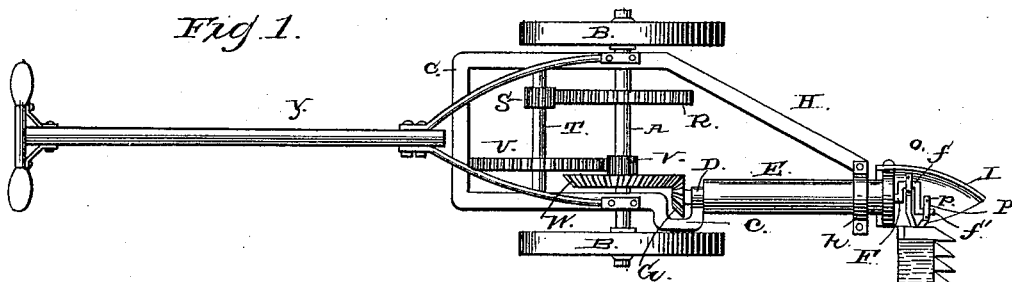


Fig. 3.

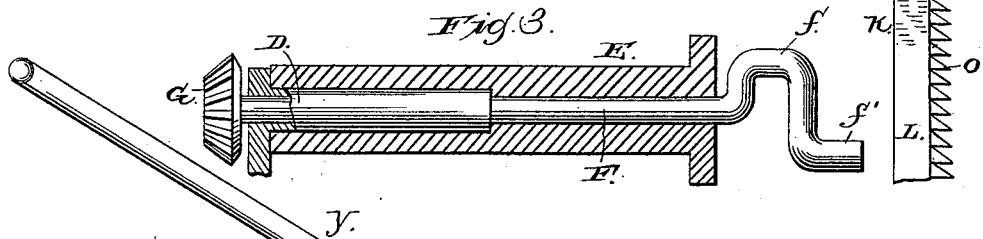


Fig. 2.

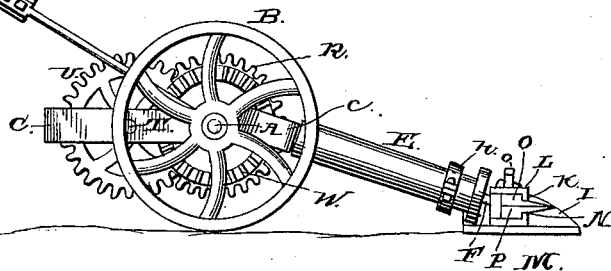


Fig. 4.

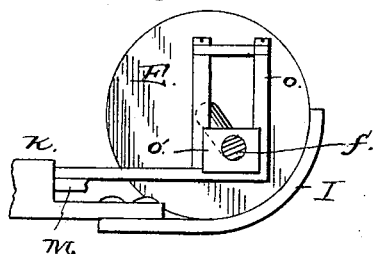
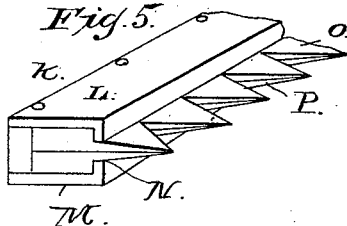


Fig. 5.



WITNESSES

M. E. Fowler.
E. L. Siggers.

INVENTOR

C. W. Cheney.

by C. A. Mowbray

His Attorneys

UNITED STATES PATENT OFFICE.

CHARLES WARREN CHENEY, OF ATHOL, MASSACHUSETTS.

LAWN-MOWER.

SPECIFICATION forming part of Letters Patent No. 342,900, dated June 1, 1886.

Application filed March 27, 1885. Serial No. 160,302. (No model.)

To all whom it may concern:

Be it known that I, CHARLES WARREN CHENEY, a citizen of the United States, residing at Athol, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Lawn-Mowers, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improvement in lawn-mowers; and it consists in the peculiar combination and construction of devices that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a top plan view of a lawn-mower embodying my invention. Fig. 2 is a side elevation of the same. Figs. 3, 4, and 5 are detailed views.

A represents a shaft, to which are secured the driving-wheels B. A rectangular cart-frame, C, is hinged to the shaft. One side of this frame is curved, as at *c*, and is provided with a forwardly-projecting spindle, D.

E represents a hollow sleeve, which is mounted on the spindle D. The spindle D is hollow, and through it extends a shaft, F, which has a miter-pinion, G, secured to its inner projecting end, and its outer projecting end bent into a double crank, as at *f f'*. A diagonal brace, H, extends from the frame to the spindle near the outer end thereof, and is provided with a box, *h*, which surrounds the sleeve, and in which the latter can be partly rotated.

I represents a shoe or guard, which is secured to the front end of the sleeve E, and is adapted to turn therewith. From the outer side of this shoe extends the box K, which is composed of the angle-plates L M, which are bolted together and have a slot, N, in the front side of the box throughout the length thereof. In this box are placed the cutter-bars O P, which have their inner ends bent out of line with the bars and provided with vertical ways *o p*, in which slide the bearing-boxes *o' p'*. The box *o'* is journaled on the crank *f*, and the box *p'* is journaled on the crank *f'*. The cutter-bars are provided with teeth, which have one edge at right angles to the cutter-bar and one edge inclined thereto.

To the shaft A is fixed a spurred wheel, R, which meshes with a pinion, S, that is fixed to a shaft, T, which is journaled in the frame in rear of the shaft A. A spurred wheel, U,

is fixed to the shaft T, and meshes with a pinion, V, that turns loosely on the shaft A. To this pinion is secured a miter gear-wheel, W, which meshes with the miter-pinion G. A push-pole, Y, is secured in rear of the frame. When the lawn-mower is moved along the ground, the rotation of the driving-wheels is transmitted through the gearing described to the cranked shaft F, and communicates motion to the cutter-bars. As the shoe to which the box in which the cutter-bars reciprocate is secured to the hollow sleeve E, and as said sleeve is free to rotate, it follows that the cutter-bars are adapted to work at any required angle, irrespective of the position of the main portion of the machine, as will be very readily understood.

A lawn-mower thus constructed is cheap and simple, is not likely to get out of order, and is adapted for use in mowing terraces and other inclines or mounds with ease.

Having thus described my invention, I claim—

1. The frame having the projecting hollow spindle D, in combination with the hollow sleeve E, enlarged at one end to receive the spindle within the same, the interior diameter of the spindle being equal to the normal diameter of the sleeve, and the driving-shaft working partly in the sleeve and partly in the spindle, as set forth.

2. The combination, with the axle, of the frame comprising the parallel side bars, brace-bar H, and the sleeve D, all formed in one casting, as set forth.

3. The combination, with the axle, of the frame C, comprising the parallel side bars, the brace-bar H, and projecting sleeve D, all formed in one casting, the shaft T, gears R S U V between the side bars of the frame, and miter-gear W on the axle, as set forth.

4. The combination, with the axle, of the frame C, comprising the parallel side bars hinged to the axle, and between which the driving-gear is placed, and the projecting sleeve D, all formed in one casting, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

CHAS. WARREN CHENEY.

Witnesses:

B. MADISON RICE,
EDGAR V. WILSON.