

W. J. LANE.

Improvement in Lawn-Mowers.

No. 132,160.

Patented Oct. 15, 1872.

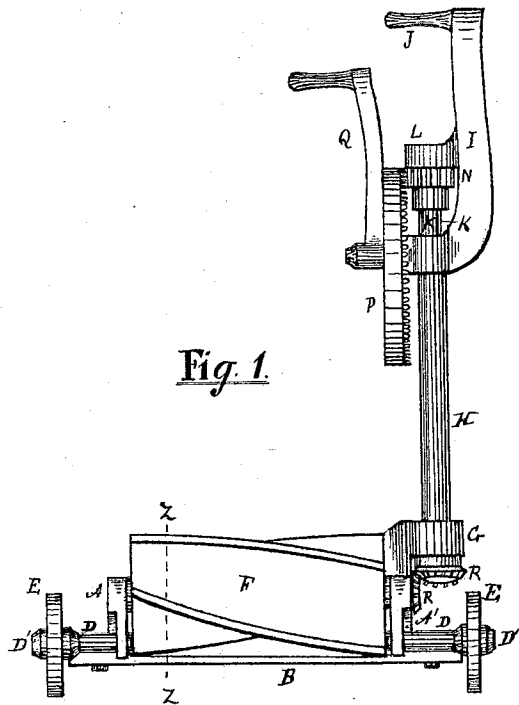


Fig. 1.

Fig. 4.



Fig. 2.

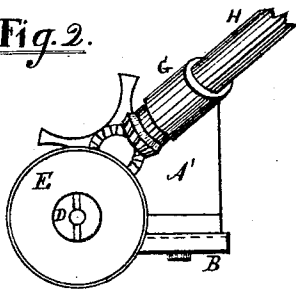
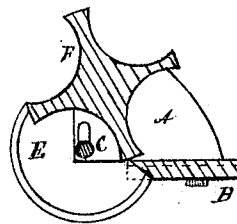


Fig. 3.



WITNESSES:

Wm. A. Macy.
Eli's Coleman

INVENTOR:

William J. Lane
By his Atty. J. Dennis Jr.

UNITED STATES PATENT OFFICE.

WILLIAM J. LANE, OF MILLBROOK, NEW YORK, ASSIGNOR TO LANE BROTHERS, OF SAME PLACE.

IMPROVEMENT IN LAWN-MOWERS.

Specification forming part of Letters Patent No. 132,160, dated October 15, 1872.

To all whom it may concern:

Be it known that I, WILLIAM J. LANE, of Millbrook, Dutchess county, in the State of New York, have invented certain new and useful Improvements in Lawn-Mowers; and I hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawing forming part of this specification.

The nature or essence of my invention consists in the particular construction, combination, and arrangement of devices forming the improved lawn-mower, described in the following specification and represented in the accompanying drawing.

In the accompanying drawing, Figure 1 is a plan or top view of a lawn-mower with my improvements; Fig. 2 is an elevation of the left-hand end; Fig. 3 is a cross-section on the line Z Z, Fig. 1; and Fig. 4 is a section of the connecting-pipe and shaft.

In the above-mentioned drawing, A and A' are cast-metal stands, made in the form shown in the drawing, or in such other form as will answer the purpose, and connected together by the knife-bar B, to which the stands A and A' are fastened with bolts, the top of the knife-bar being grooved at each end to form seats for the stands A and A'. The stands A and A' are slotted, as shown in Fig. 3, for the bolts C C, which hold the hollow studs or journal-sleeves D D, forming the axles of the wheels E E, upon which the machine travels, the slot in the stands allowing the wheel to be adjusted higher or lower so as to carry the knife nearer the ground or further from it, as required. The stands A and A' are also perforated for the journals of the rotating cutting-cylinder F. The stand A' is provided with a lug or arm, G, into which one end of the pipe H is fastened, the opposite end of the pipe be-

ing fastened in the stand I, which may be made in the form shown, or such other form as will answer the purpose. The handle J is fastened to the end of the stand I for the left hand of the operator to push the machine. The journal of the shaft K turns in the lug G and in the lug L on the stand I. The shaft K has a pinion, N, fastened to it, which is turned by the gear P, which turns on the stud on the end of the stand I, which gear P is provided with a crank, Q, so arranged that the operator can turn the gear P and operate the machine with his right hand, while he pushes forward, guides, and holds the machine in the proper position with his left hand on the handle J. The miter-gears R R are, one on the shaft K and the other on the journal of the cutting-cylinder F, so that the operator, by turning the crank Q, rotates the cutting-cylinder F and cuts the grass across the edge of the knife B. A piece of leather, S, may be applied inside the pipe H, about midway between its ends, as shown in Fig. 4, to prevent the shaft from vibrating and hitting the pipe so as to make a noise.

I claim—

1. The combination and arrangement of the stands A and A', provided with slots for attaching and adjusting the supporting-wheels E E, as shown, with the knife B, forming the only connection between the said stands, which support the journals of the rotating cutter F, substantially as described.

2. I claim the supporting-axles or journal-sleeves D D, constructed and arranged to be adjusted, as described, in combination with the stands A and A' and rotary cutter F, all substantially as described.

WILLIAM J. LANE.

Witnesses:

H. T. TRIPP,
GEORGE P. TOMPKINS.