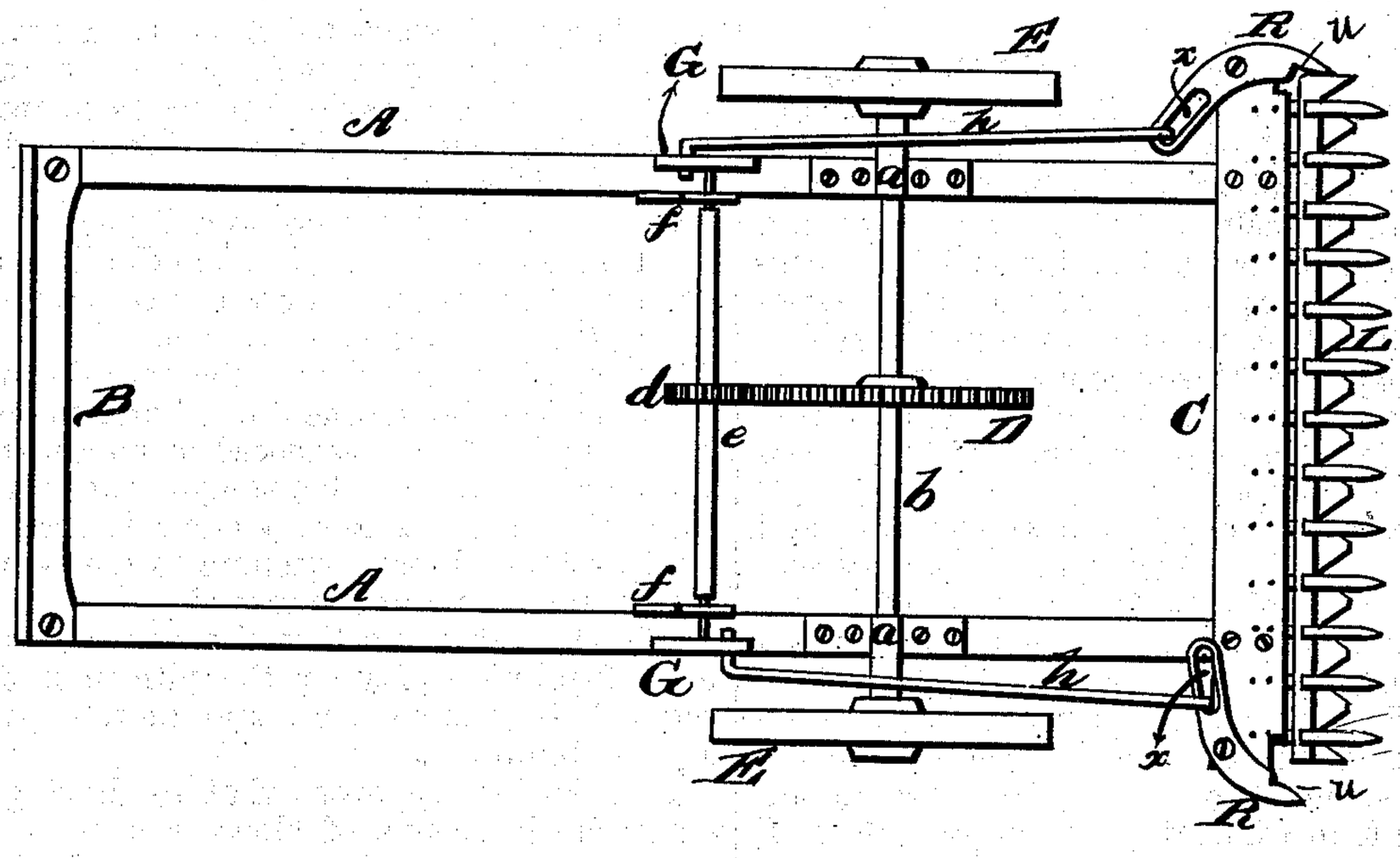
E. P. TERRELL.

Lawn-Mowers.

No. 198,708. Patented Dec. 25, 1877.

Fig. 1.



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UNITED STATES PATENT OFFICE.

ENOCH P. TERRELL, OF BELLEFONTAINE, OHIO.

IMPROVEMENT IN LAWN-MOWERS.

Specification forming part of Letters Patent No. **198,708**, dated December 25, 1877; application filed August 18, 1877.

To all whom it may concern:

Be it known that I, ENOCH P. TERRELL, of Bellefontaine, in the county of Logan and State of Ohio, have invented a new and valuable Improvement in Lawn-Mowers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

The figure is a representation of a plan view of my lawn-mower.

My invention relates to lawn-mowers; and it consists in the novel construction hereinafter set forth and specifically claimed.

A A of the drawing represent two parallel side beams, connected at one end by the handle-bar B, while at the other end they are attached to the finger-bar C. These beams A A are suspended by means of boxes *a a* under the axle *b*, to which the driving-wheels E E are secured.

To the axle *b* is attached a cog-wheel, D, which engages with a pinion, *d*, on a shaft, *e*, which shaft has its bearings in standards *f f* on the beams A A. On each end of the shaft *e* is a disk or crank-wheel, G, from which a pitman, *h*, extends forward, as shown. These pitmen are connected with their respective crank-wheels in such manner that the shaft, in its revolution, brings the crank of one pitman to the extreme front of its wheel, while the other crank will be at the extreme rear of its wheel, as represented in the drawing. By this arrangement of the wheels and pitmen a regular reciprocating movement is obtained for the purpose of forcing the cutter-bar to the right and left alternately, as hereinafter described.

L represents the cutter-bar, which is placed and works in the finger-bar in the usual manner, except that it is moved by blows on its ends, like a shuttle in a loom, as will be more fully set forth.

On the upper surface of the finger-bar C is pivoted a lever, R, the front end of which is arranged to extend over the end of the cutter-bar, though disconnected from it. I arrange one of these levers on each side of my frame, and form a slot in each of them, as shown at *x x*. In these slots *x x* I hook the front ends of the pitmen, respectively.

To operate my lawn-mower, I push it forward, standing behind the handle B. This movement rotates the cog-wheel D, the pinion *d*, and the crank-wheels G. The pitmen being respectively attached to their crank-wheels in the positions above mentioned, and as shown in the drawings, are actuated in such manner as to strike alternate blows upon the ends of the cutter-bar, and thereby move it back and forth at a speed proportionate to the velocity at which the carriage is moved.

It will be observed that the slots *x x* in the lever R provide play for the pitmen in their reciprocating movement, and thereby guard against binding.

It is further apparent that by driving the cutter-bar by means of blows from the levers R, these levers will receive strain in one direction only—that in which they are strongest.

My lawn-mower, while possessing no startling novelty, presents many desirable features, among which may be reckoned cheapness of construction, durability, and the absence of complicated mechanism, which is liable to derangement, and too often the subject for expensive repairs.

What I claim is—

The improved lawn-mower, consisting of frame A B C, mounted on drive-wheels E E, counter-shaft *e*, driven by pinion on the axle, and having reversed cranks at each end, pitmen *h h*, levers R, pivoted on finger-bar C and slotted at the heel, and cutter-bar L, impelled alternately by either lever independently of the other, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ENOCH P. TERRELL.

Witnesses:

GEO. W. EMERSON,

E. J. HOWENSTINE.