

G. Waddington,
Hedge Trimmer.

No. 100,955.

Patented Mar. 15, 1870.

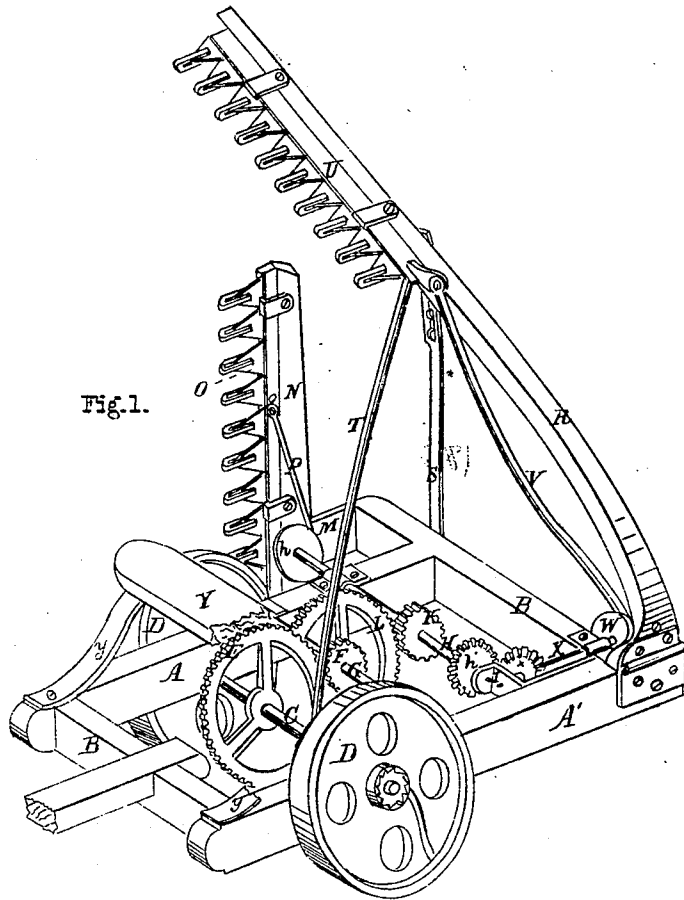


Fig. 1.

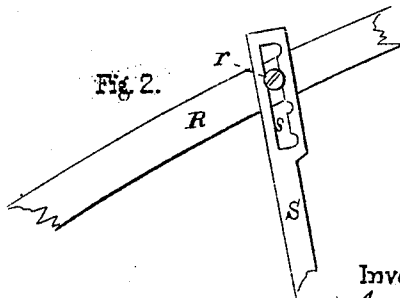


Fig. 2.

Witnesses.

Paul J. May
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Inventor.

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United States Patent Office.

GEORGE WADDINGTON, OF LE ROY, ILLINOIS.

Letters Patent No. 100,955, dated March 15, 1870.

COMBINED HEDGE-TRIMMER AND MOWER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GEORGE WADDINGTON, of Le Roy, in the county of McLean, and in the State of Illinois, have invented certain new and useful Improvements in Hedge-Trimmers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a perspective view of my improved machine, and

Figure 2 is a broken section of the devices for adjusting vertically the inclined cutting apparatus.

Letters of like name and kind refer to like parts in each of the figures.

My invention has for its object the production of a machine that, while intended principally for use in reducing a hedge to a uniform height and breadth, is capable of employment as a mower; and, to this end—

It consists in the general construction and arrangement of the cutting devices so as to permit of their adaptation to the different purposes required, and, in combination therewith, in the means employed for communicating motion to the same, as is hereinafter set forth

In the annexed drawing—

A represents the side pieces of the supporting-frame, connected together at their ends by means of the cross-bars B and B', the whole resting upon an axle, C, having upon its ends two ground-wheels D, with which it revolves.

Secured upon and revolving with the axle C is a gear-wheel, E, which meshes with and gives motion to a pinion, F, secured upon a shaft, G, journaled within suitable boxes upon the upper edge of the side pieces.

A second shaft, H, suitably journaled upon one side of the frame, and within an angular brace, I, secured to and projecting inward from the opposite side of said frame, is caused to revolve by means of a pinion, K, secured thereon, which meshes with and receives motion from a gear-wheel, L, secured upon the shaft G.

The cross-bar B' extends to one side somewhat beyond the wheel, and has secured to and projecting forward from its end a metal bar, M, to which is attached a vertical wooden bar, N.

Attached to the inner face of and projecting forward from the bar N is a cutter-bar, O, of usual construction, to which a vertically-reciprocating motion is imparted by means of a pitman, P, pivoted at one end to a suitable pin, Q, projecting inward from said cutter-bar, and journaled at its opposite end upon a crank-

pin, which is secured within the outer face of a disk, h, attached to the end of the shaft H.

Hinged at one end to the rear end of the side piece A is a wooden bar, R, which, projecting upward and across the frame, is supported and rendered radially adjustable by means of a brace, S, having its lower end pivoted upon the cross-bar B', while its upper end is provided with a slot, s, extending lengthwise of the same, through which a screw, r, passes into the bar R.

A series of notches is provided upon one side of the slot s, within the brace S, and furnishes a means for locking the bar R in position when adjusted, one of said notches being caused to embrace the shank of the screw r, and hold it firmly in place.

A second brace, T, is secured to the under side of the bar R, midway between its ends, and from thence extending forward of the axle, is attached to the side piece A, by which means said bar is rigidly braced fore and aft.

Secured to the upper side of and projecting forward from the bar R, near its outer end, is a cutter-bar, U, similar to that before described, to which motion is imparted by means of a pitman, V, pivoted to the inner end of said cutter-bar, and journaled upon a crank-pin, which projects rearward from a disk, W, attached to the end of a shaft, X.

The shaft X is journaled within a suitable box upon the cross-bar B', and within the angular brace I, and is placed in a line with the draft. Motion is imparted to said shaft by means of a bevel-pinion, z, secured upon its forward end, and meshing with a corresponding pinion, h', secured upon the inner end of the shaft H.

A suitable seat, Y, supported by two springs y, attached to the front ends of the side pieces A and A', completes the device, which is operated as follows:

The bar R being adjusted to the height designed for the hedge, the machine is driven closely along one side of the same, when, by means of the reciprocating cutter-bars O and U, the projecting shoots upon one side and the top of said hedge are quickly and evenly trimmed.

A similar operation upon the opposite side of the hedge reduces it to a uniform width and height.

It is not expected that the hereinbefore-described machine will operate upon an overgrown hedge, as the size of the shoots would, in most cases, render the same impracticable; but it is proposed to commence its use when the hedge has attained a height of from three to four feet, after which an occasional trimming will cause said hedge to grow evenly and compact.

The peculiar upward curve of the lower end of the bar R, and the manner of its connection to the frame in rear of the wheels, enables said bar, when discon-

nected from the braces S and T, to be turned over so as to rest upon the ground, in which position it will represent the cutter-bar of an ordinary reaping or mowing-machine, and enable the device to be used as such.

Having thus fully set forth the nature and merits of my invention,

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

The arrangement of the curved bar R, hinged to the side of the frame A', in rear of the wheel, in com-

bination with the vertical and inclined cutter-bars O and U respectively, the pitmen P and V, the cranks h and W, and the driving-gear, substantially as and for the purpose specified.

In testimony that I claim the foregoing, I have hereunto set my hand this 23d day of November, 1869.

GEO. WADDINGTON.

Witnesses:

LEWIS J. WILLHOIT,
ABRAM KELLY.