E. L. FOX.

HEDGE TRIMMER.

APPLICATION FILED JAN. 29, 1912.

1,098,032.

Patented May 26, 1914.

2 SHEETS—SHEET 1.

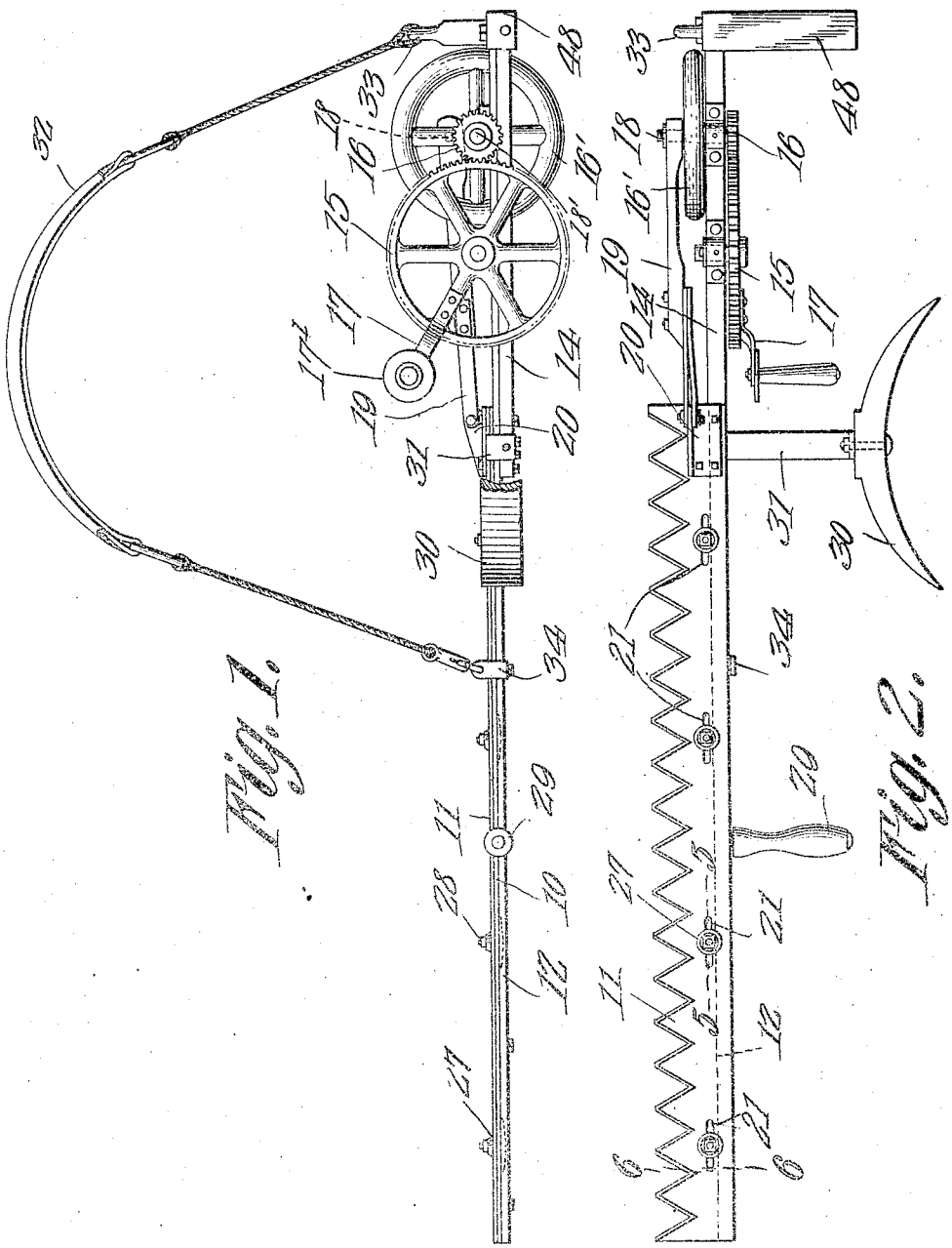


Fig. 1.

Fig. 2.

Witnesses

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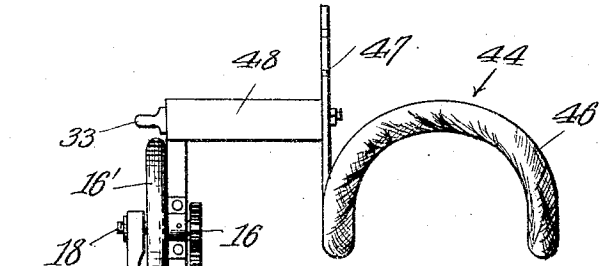


Fig. 3.

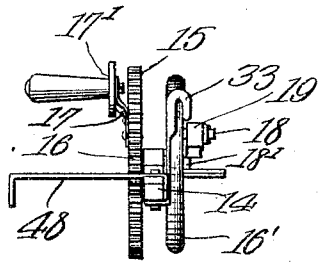
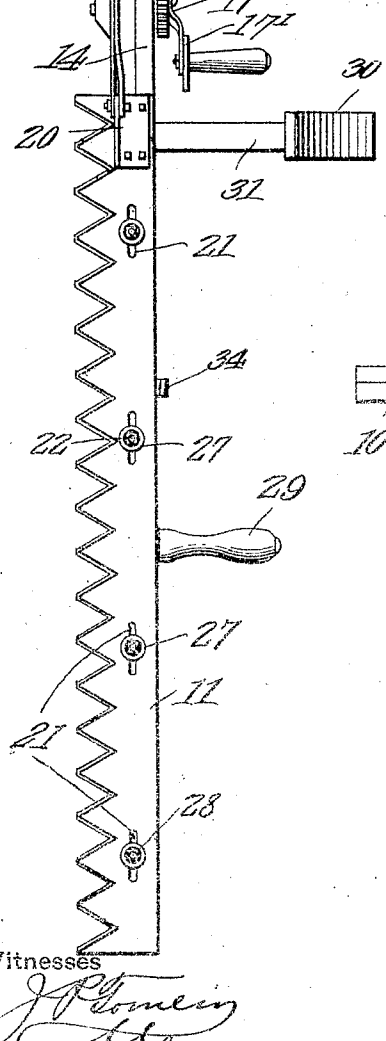


Fig. 4.



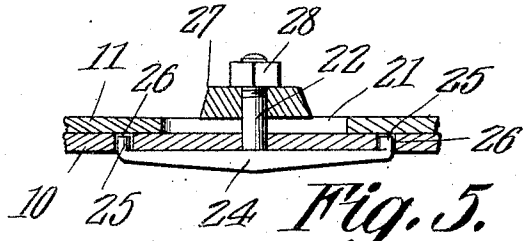


Fig. 5.

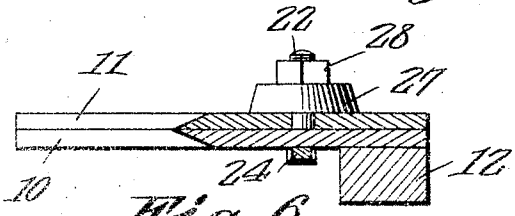


Fig. 6.

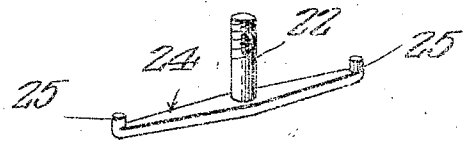


Fig. 7.

Witnesses

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UNITED STATES PATENT OFFICE.

ELLIS L. FOX, OF AUDUBON, PENNSYLVANIA.

HEDGE-TRIMMER.

1,098,032. Specification of Letters Patent. Patented May 26, 1914.

Application filed January 29, 1912. Serial No. 674,111.

To all whom it may concern:

Be it known that I, ELLIS L. FOX, a citizen of the United States, residing at Audubon, in the county of Montgomery and State of Pennsylvania, have invented a new and useful Hedge-Trimmer, of which the following is a specification.

The invention relates to hedge trimmers.

The primary object of the invention is to provide a machine of this character which may be supported by the body of the wearer.

A further object is to provide a cutting machine which may be driven regardless of the angle at which the machine is placed.

In the drawings:—Figure 1 is a side elevation, parts being shown in section. Fig. 2 is a top plan. Fig. 3 is a top plan showing a modified form of support. Fig. 4 is a rear elevation. Fig. 5 is a section on the line 5—5 of Fig. 2. Fig. 6 is a section on the line 6—6 of Fig. 2. Fig. 7 is a detail view of the blade clamp.

In the drawings 10 and 11 designate the superposed blades which form the cutting mechanism. The blade 10 is stationary, and is reinforced by the longitudinally disposed bar 12 secured to the under face thereof. The bar 14 is secured to the blade 10, said bar supporting the driving mechanism which consists of the gears 15 and 16, the gear 15 being rotated by the crank 17, a disk 17′ of leather or other material being positioned on the crank handle to protect the hand of the operator. The shaft 18′ on which the gear 16 is mounted carries a fly wheel 16′ having a wrist pin 18 connected by the pitman 19 with the bracket 20 arranged on the reciprocating bar 11. The bar 11 is provided with elongated slots 21. The bolts 22 of clamps, one of which is shown in Fig. 7, pass through these slots and through apertures in the blade 10. Each clamp includes a member 24 secured to the bolt 22, said member being formed with upturned end portions 25 which enter apertures 26 in the bar 10, the bolt receiving washer 27 which rests upon the blade 11. The blades are in this manner held together, the blade 11 while being free to reciprocate being held in contact with the blade 10 to assure a proper cut, the nut 28 being adjustable to clamp the blades together loosely.

The machine is designed to cut in various positions, the stationary bar 10 being provided with a handle 29 and a body rest 30 which is rotatably supported upon the arm 31. The rest 30 is curved to conform to the body of the operator, will be rotated as the machine is brought from a horizontal to a vertical position.

In Fig. 1 the machine is supported by the strap 32 which is connected to brackets 33 and 34 positioned on the bar 14, and the blade 10 respectively, the strap being passed over the shoulder of the operator.

In Fig. 3 the adjustable rest 44 is provided, said rest consisting of the curved member 46 which is secured to an arm 47 adjustably supported by another arm 48 mounted on bar 14. It will be noted that the supports shown may be readily interchanged according to the manner in which the trimmer is used.

The many advantages of a machine of this character will be clearly apparent as it will be noted that the same may be supported to operate in various positions and that the cutting members may always be maintained in contact with each other. It will also be seen that the entire structure is such as may be easily and economically manufactured and the various parts readily assembled.

What is claimed is:—

A hedge trimmer including a reinforcing bar straight from end to end, a stationary blade secured to and extending longitudinally of the bar, a second bar secured to the reinforcing bars, drive mechanism mounted upon said second bar and beyond one end of the stationary blade, a reciprocating bar constituting a cutting element and actuated by said mechanism, an arm extending horizontally away from the bars and cutting mechanism and at right angles to the bars, a breast engaging rest swiveled on the free end of the arm, a handle upon the drive mechanism and beyond one side of said arm,

a handle extending from the bar beyond the other side of the arm, and means connected to the bar and extending above the arm, for engaging the shoulders of the operator to support the bar across the front of the operator.

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

ELLIS L. FOX.

Witnesses:
WILLIAM GRAHAM,
HARRY W. AKINS.