Dec. 30, 1930. L. O. B. LINDSTROM ET AL 1,786,625

ELECTRIC PRUNING DEVICE

Filed Aug. 12, 1929

Fig. 2.

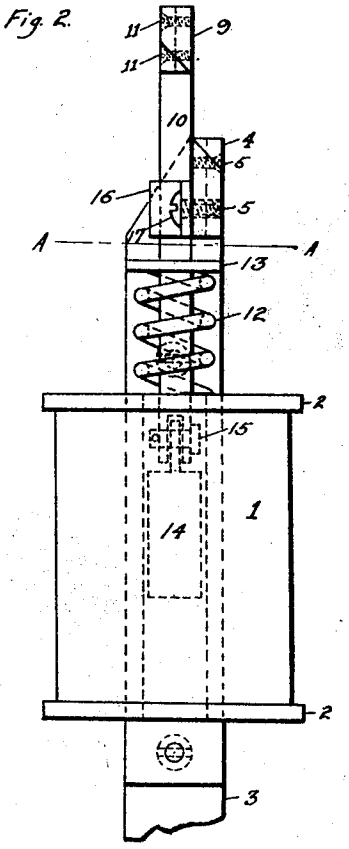


Fig. 1.

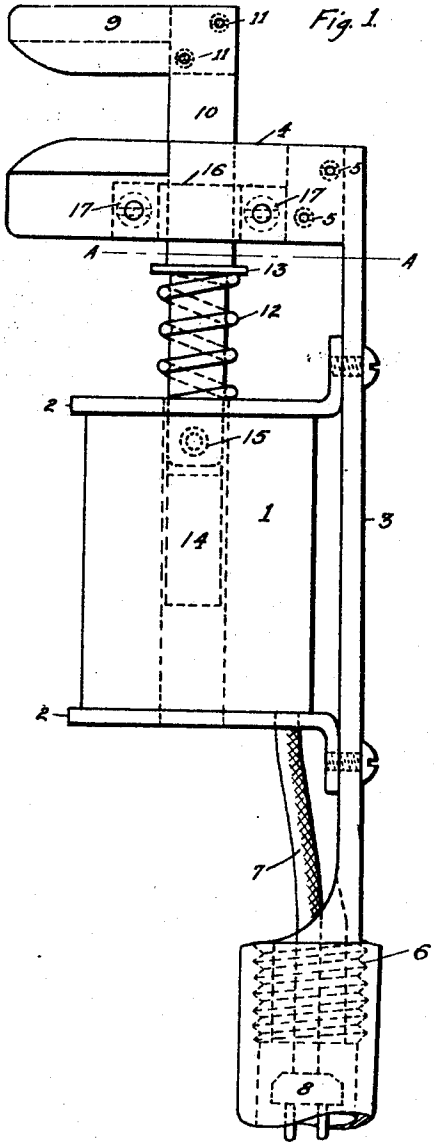
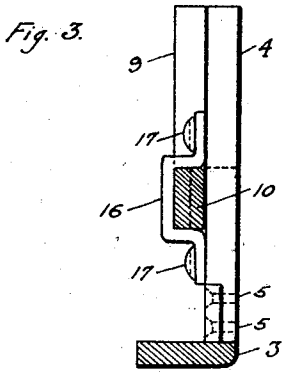


Fig. 3.



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UNITED STATES PATENT OFFICE

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ELECTRIC PRUNING DEVICE

Application filed August 12, 1929. Serial No. 385,371.

This invention relates to an electrically driven pruning and trimming device in which an electric solenoid operates a cutter; and the object of the invention is to make use of electric power in pruning and trimming trees, shrubs, vines, hedges and other forms of vegetation.

One form of the invention is illustrated in the accompanying drawing in which Figure 1 is a side view of the complete device showing the cutter face. Figure 2 is a front view of the entire device with exception of lower pipe connection which has been cut off to allow drawing space for Figure 3; Figure 3 is a detail of the moving cutter guide looking up from the bottom on the section A—A.

The solenoid 1, with its holding flanges 2—2 is secured to the supporting frame 3. The lower cutter 4 may be secured to the frame 3, where the latter makes a right angle turn to meet the plane of the cutter, in a flush lap joint, with the machine screws 5—5. The lower end of the frame 3 is flared out to a threaded pipe connection 6 to which may be threaded a short or long handle for operation. The electrical conductor cable 7 may lead down through this pipe section and terminate in a plug connection 8, for connecting to an electrical cord leading to a switch.

The moving cutter 9 may be secured to the operating stem 10 by means of the machine screws 11—11 in a flush lap joint. The spiral spring 12 around the stem 10 returns the top cutter to the normally open position, by acting between the top solenoid flange 2, and the collar 13 on the stem 10.

The solenoid plunger or armature 14 may be pivoted to the stem 10 by the pin 15. Thus, when the solenoid is energized, the plunger 14 pulls down the stem 10 with the top cutter 9 against the spring 12, to the lower cutter 4. The stem 10 slides in the guide 16 which may be secured to the lower cutter 4 by means of the screws 17—17.

We claim:

In an electric pruning device, the combination of an electric solenoid and pruning cutters comprising a supporting frame flared out to a hollow threaded pipe connection to admit the electrical conductor, a solenoid secured to said frame, a detachable cutter blade secured to said frame, a vertically reciprocable operating stem coupled to the solenoid plunger and passing through a guide on the blade secured to the frame, a detachable cutter blade secured to said operating stem, and a spiral spring surrounding said operating stem between the top of the solenoid and the stationary blade secured to said frame, to hold the blades in an open position.

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