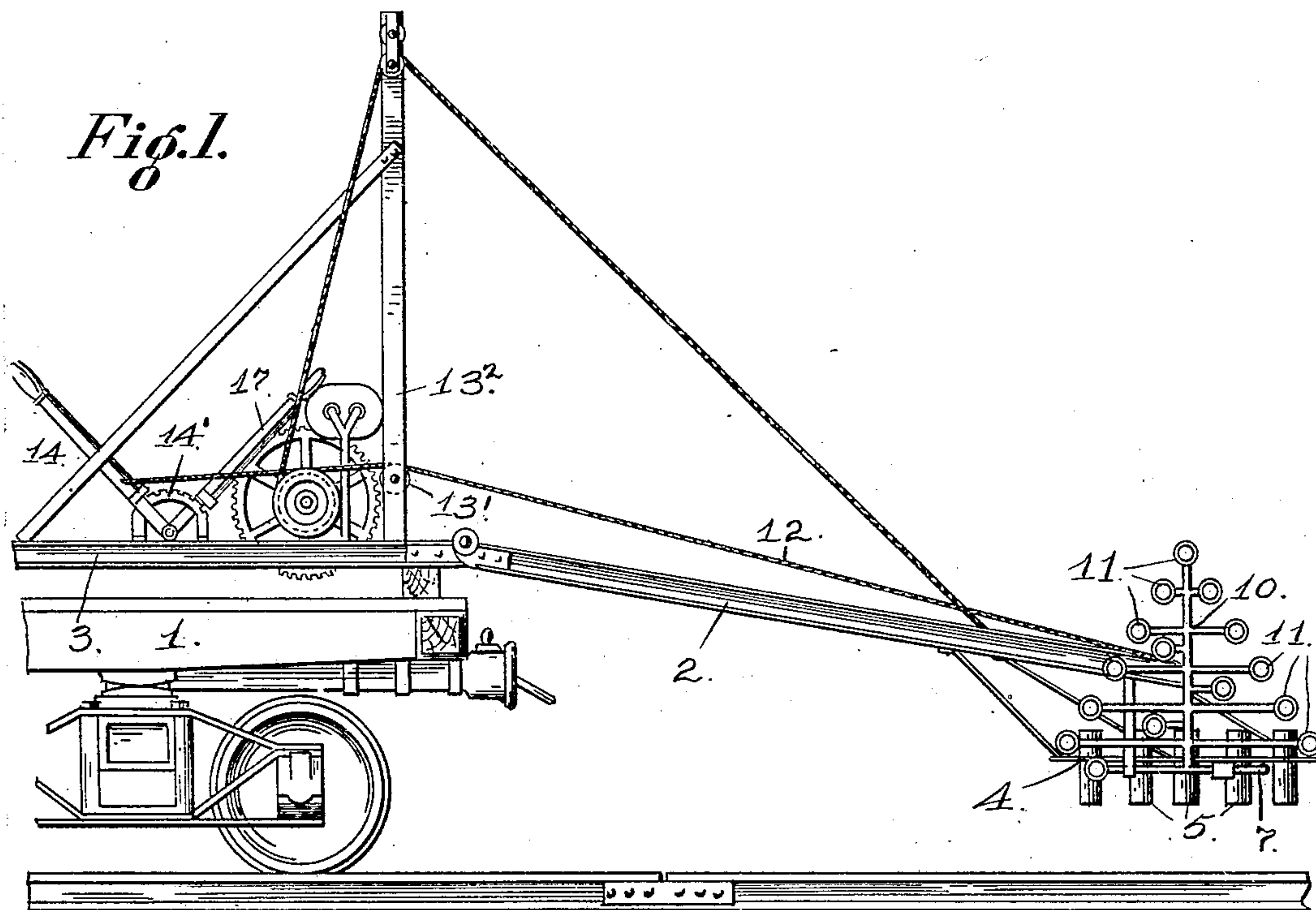


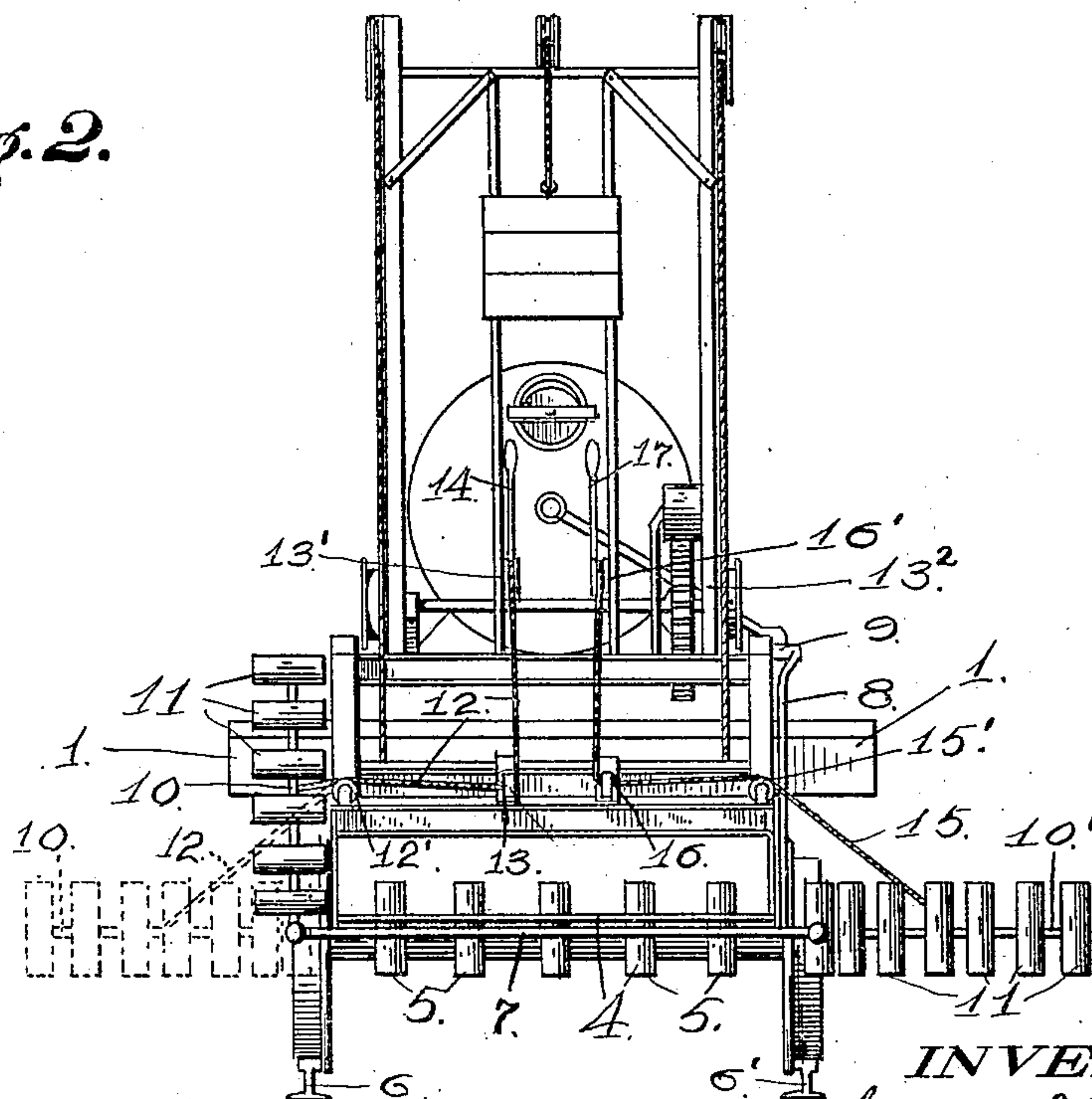
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WEED BURNING APPLIANCE.  
APPLICATION FILED MAR. 18, 1909.

955,425.

Patented Apr. 19, 1910.



*Fig. 2.*



WITNESSES.  
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# UNITED STATES PATENT OFFICE.

GEORGE L. O'NEALE, OF SAN JOSE, CALIFORNIA.

## WEED-BURNING APPLIANCE.

955,425.

Specification of Letters Patent.

Patented Apr. 19, 1910.

Application filed March 18, 1909. Serial No. 484,247.

*To all whom it may concern:*

Be it known that I, GEORGE L. O'NEALE, a citizen of the United States, residing at San Jose, in the county of Santa Clara and State of California, have invented certain new and useful Improvements in Weed-Burning Appliances, of which the following is a specification.

The hereinafter described invention relates to that class of burners designed for use in connection with a railway car for the destruction of weeds and vegetation within and alongside the tracks of the roadway, the object being to increase the working area of the burner by providing the same with laterally extended side members or wings, which project to a considerable distance beyond the rails of the trackway in order to apply a flame for the destruction of the weeds or vegetation adjacent the rails. In order to gain this increase in the burning area of the burner, it is required that the laterally extended members or side wings be hinged to the body portion of the burner to swing upwardly at a right angle thereto, so that the said members may be raised or swung upwardly to clear the sides of cattle guards and the walls of tunnels during the travel of the car carrying the improved burner.

To comprehend the invention, reference should be had to the accompanying sheet of drawings, wherein—

Figure 1 is a broken side view of a car with the weed burner applied thereto, the laterally extended wing of the burner being illustrated in raised position. Fig. 2 is a front elevation of the mechanism disclosed by Fig. 1 of the drawings, the position of the raised wing when lowered being illustrated in dotted lines.

In the drawings, the numeral 1 designates a suitable car for carrying the weed burner, and 2 a swinging ladder hinged to the forward end of an auxiliary platform 3 on the car 1. At the outer end of the swinging ladder 2 is held the weed burning appliance, which comprises a suitable body portion 4 containing and holding, in the present case, a plurality of depending oil burners 5, for directing a flame onto the surface of the road-bed between the rails 6—6'. These burners receive oil from the tubes or pipe coils 7, the oil being delivered thereto from the feed pipe 8 carried by the swinging ladder 2, and which is hinged to the supply pipe

9 leading from an oil reservoir on the auxiliary platform 3.

To the sides of the body of the oil burner, the laterally extended wings 10—10' are hinged, each wing being comprised of oil tubes carrying a plurality of oil burners 11. These wings are hinged to the side oil coils of the body of the oil burner and receive oil therefrom, the joint between these parts being of any suitable character. From the wing 10 extends a lifting cable 12, which leads over a pulley 12' and under the pulley 13 carried at the outer end of the swinging ladder 2 and is extended over a pulley 13' held in the frame 13<sup>2</sup> on the auxiliary platform 3, its free end being connected to a hand lever 14, which engages with the quadrant 14'. As the attendant of the car, during the travel thereof, throws inwardly the lever 14, a pulling strain is exerted on the cable 12 to raise or elevate the wing 10 into a vertical position so as to clear obstructions alongside of the rail 6 of the trackway. Similarly, from the side wing 10' extends a lifting cable 15, which leads over pulley 15' and under pulley 16 carried at the outer end of the swinging ladder, and is extended over a pulley 16', its free end being connected to a hand lever 17, which engages with a quadrant, not shown. As in the case of the hand lever 14, when the operator throws inwardly the lever 17, a pulling strain is exerted on the cable 15 to raise or elevate the wing 10 into a vertical position so as to clear obstructions alongside of the rail 6' of the trackway. The laterally extended hinged wings 10—10' lower by gravity, on the release of the hand levers 14—17. By being thus enabled to raise or elevate the laterally extended wings 10—10' so as to clear obstructions adjacent the rails and to reduce the width of the burner as the car moves between the side walls of cattle guards and into tunnels, I am enabled to give to the burner a greater range than where the same is confined to substantially the width of the track proper, for the extended side wing portions of the burner will place a flame at a considerable distance beyond the sides of the track, approximately seven feet. The effectiveness of the burner is thus considerably increased as to the consumption of the weeds or vegetation, for the area of its consuming flame is materially extended.

Having thus described the invention, what is claimed as new and desired to be protected by Letters Patent is:—

5 In a weed burning appliance for railway purposes, the combination with a car, a supporting ladder projecting from one end thereof, a weed burner carried at the outer end thereof, the same comprising a body  
10 portion provided with a plurality of burners, an extended wing carrying a plurality of burners hinged to each side of the body portion of the burner, devices on the car for

operating the hinged wings to elevate the same to clear obstructions alongside of the rails over which the car travels, and connections between the said devices and the laterally extended wings of the burner.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE L. O'NEALE.

Witnesses:

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