June 14, 1949. J. B. BLACKWELL 2,473,192

COIL FOR WEED BURNERS AND PEAR BURNERS

Filed Aug. 13, 1945

Fig. 1

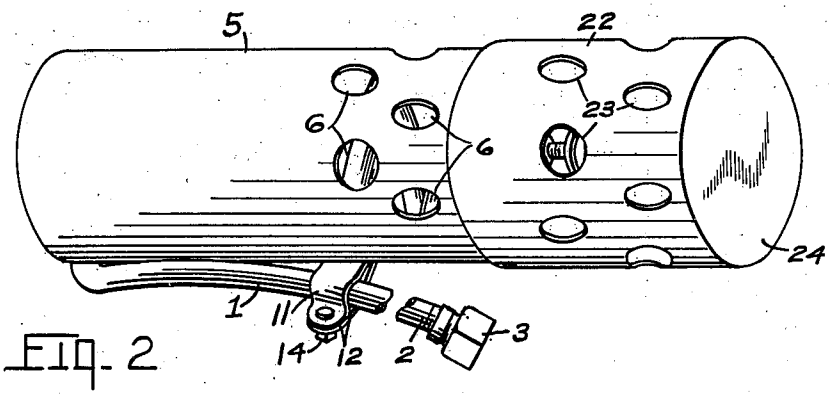
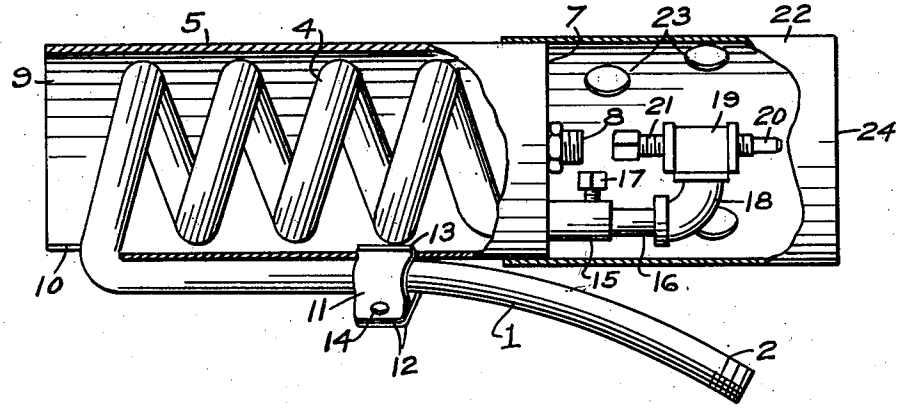


Fig. 2



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COIL FOR WEED BURNERS AND PEAR BURNERS

John B. Blackwell, San Antonio, Tex.

Application August 13, 1945, Serial No. 610,469

1 Claim. (Cl. 158—79)

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My present invention, in its broad aspect, has reference to improvements in coils for weed burners and pear burners, and the like, and my present coil is characterized by a fuel inlet to the coil which carries a ventilated coil hood through the head of which extends the jet from which the flame caused either by a mixture of kerosene and air, or gas and air, or other suitable fuel is projected against weeds, and the like, and which is provided with an improved detachable wind guard. My invention is very simple in construction, and the hood fully guards the coil, while the principal parts of the burner are an L and a T pipe connection and a tip or nozzle; all parts are sturdy and practical and the flame may be projected against weeds, and the like, and the jet is protected when not in use by the wind guard.

Other and equally important objects and advantages will be apparent from the following description and drawings, and it is pointed out that changes in form, size, shape, materials, and construction and arrangement of parts are permissible and within the purview of my broad inventive concept, and the scope of the appended claim.

In the drawings, wherein I have illustrated a preferred form of my invention:

Figure 1 is a perspective view of the assembly, and

Figure 2 is a longitudinal section.

In the drawings, wherein like characters of reference are used to designate like or similar parts throughout the several views:

The numeral 1 designates the fuel intake pipe which has a curved threaded end 2 carrying a coupling 3. The pipe 1 is bent to form a spiral coil 4 which extends back toward the end 2. Mounted about the coil 4 is a cylindrical hood 5 having air inlet openings 6 and a closed head 7 with a centrally located threaded air vent 8. The opposite end 9 of the hood is open and set back as at 10 and provided with an opening through which the pipe 1 extends. An attaching clip 11 for the hood is provided, which is formed with a pair of curved plates 12, having reversed lips 13 and attached together as at 14 to clamp about the pipe 1 with the lips extending through a slot in the hood to hold the hood on the pipe. The end 15 of the coil projects through the head 7 of the hood and has connected therewith a short pipe length 16 by a binding screw 17. The pipe length carries an L pipe fitting 18 to which is attached a T fitting 19 carrying the nozzle or jet 21 and an adjusting member 20. Frictionally and detachably engaging about the closed end of the hood to shield the jet is a cylindrical wind guard 22 having a plurality of openings 23 and a closed end 24. A suitable handle may be attached to the fuel pipe or otherwise attached to my device to project the flame against weeds to be destroyed.

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From the foregoing, it is believed that the operation and advantages of my invention will be apparent, but it is again pointed out that interpretation of its scope should only be conclusive when made in the light of the subjoined claim.

I claim:

A weed burner, comprising an inlet pipe bent to form a coil, a hood having an open end and a closed head enclosing the coil, air inlet openings in said hood adjacent the closed head thereof, an air vent in said closed head, an opening in said hood adjacent the open end thereof, a fuel inlet pipe on said coil extending outwardly of said hood through the opening adjacent the open end thereof, said pipe being curved throughout a part of its length, and lying in a plane substantially parallel with said coil, and having a coupling on the free end thereof, a fuel outlet on said coil leading through the closed head of said hood adjacent said air vent, a jet nozzle on the fuel outlet, an L-fitting coupling said jet with said first outlet, a T-fitting mounting the jet, means for regulating the jet, a detachable wind guard having a closed end and an open end about the jet nozzle, and frictionally engaging the hood by means of the open end and an inlet opening in said wind guard.

JOHN B. BLACKWELL.

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