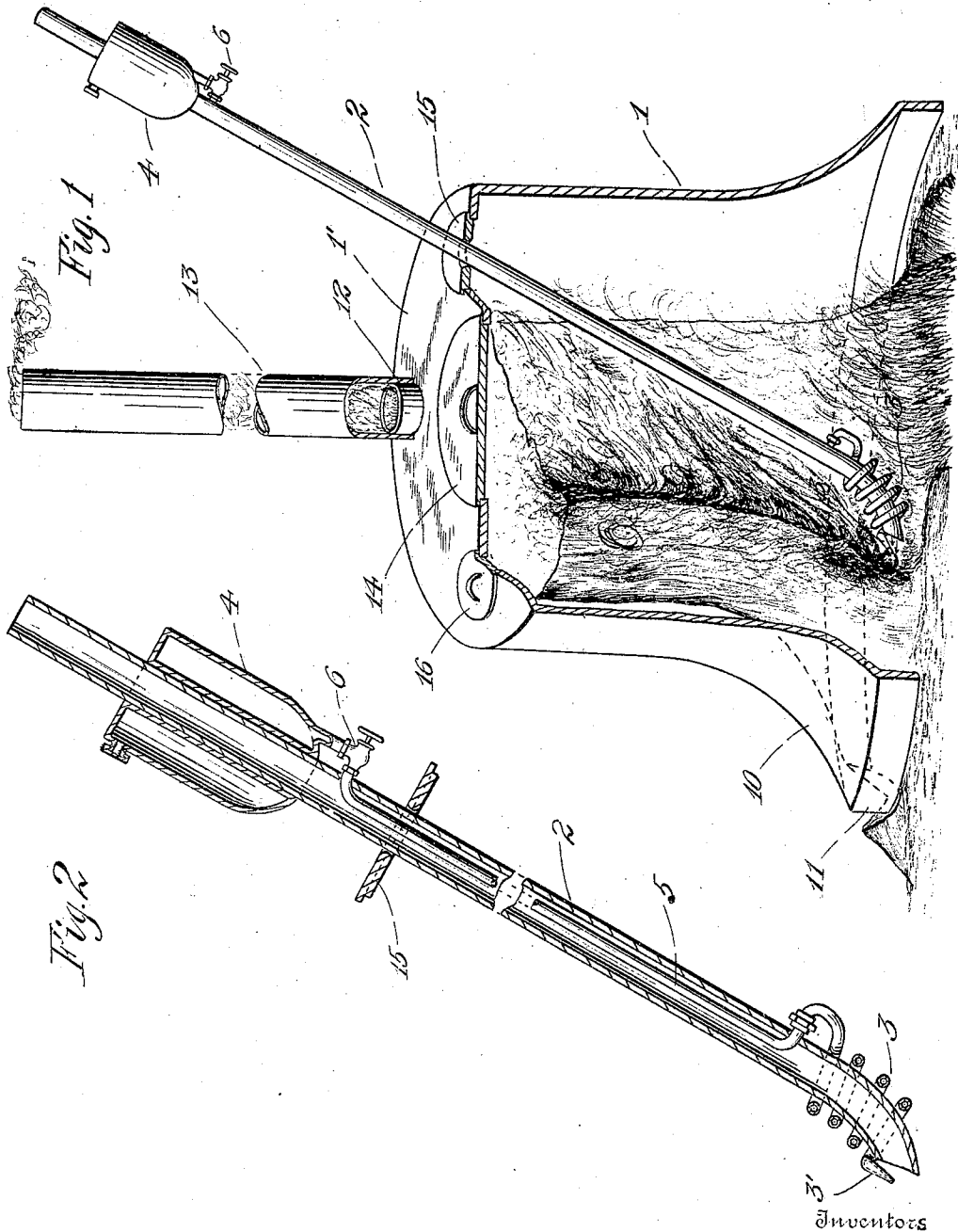


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STUMP BURNING APPLIANCE.
APPLICATION FILED DEC. 28, 1910.

1,046,031.

Patented Dec. 3, 1912.



Witnesses

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UNITED STATES PATENT OFFICE.

JOE SMITH AND HENRY C. PIGOTT, OF SEATTLE, WASHINGTON.

STUMP-BURNING APPLIANCE.

1,046,031.

Specification of Letters Patent.

Patented Dec. 3, 1912.

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To all whom it may concern:

Be it known that we, JOE SMITH and HENRY C. PIGOTT, citizens of the United States of America, and residents of the city of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Stump-Burning Appliances, of which the following is a specification.

The present invention pertains to a novel apparatus of the above type, primarily designed to facilitate the burning of stumps, and it consists in certain novel features and combinations of parts as set forth in the following description, and succinctly defined in our annexed claim.

In the accompanying drawing, wherein similar reference characters designate corresponding parts throughout, Figure 1 shows in perspective an apparatus embodying the features of our invention applied in operation on a stump, portions of some of the parts being broken away, and Fig. 2 is a longitudinal section of the combined air intake and fluid fuel appliance.

The apparatus, as shown, comprises a hood 1, constituting a combustion chamber, combined with an adjustable air intake tube 2, which serves as a support for a fluid fuel appliance consisting of a burner 3, and a fuel chamber 4. Hood 1, is conveniently of circular form in cross section and preferably provided with a flat top wall 1', and a flaring end portion as 10, terminating in an annular vertical base flange 11. Top 1', as shown, is provided with a collar 12 fitting in a vent pipe or stack 13 of suitable length which has connection with the hood through an opening in top 1' bounded by the collar. Top 1' is further provided with a central opening normally closed by a cover 14 having a suitable handle for removal when desired to feed solid fuel to the hood. At opposite sides of cover 14 are interchangeable circular closures 15, 16 fitting freely in openings of top 1', and provided with supporting flange extensions, as clearly shown in Fig. 1.

Closure 15, is provided of annular form and combined with tube 2 as a loose collar, permitting of various angular adjustments of the tube as desired, in promoting combustion in the hood.

Burner 3, which conveniently consists of a tubular generating coil provided with a

terminal tip 3' and extending about the angular lower end portion of tube 2, communicates with a pipe or passage way 5 extending within tube 2, and connected through a suitable shut off valve 6, with chamber 4, which latter extends about the upper or outer end portion of tube 2.

In applying the apparatus to a stump, solid fuel is placed about the stump or against one side thereof, and such protruding root portions as would interfere with a level seating of the hood are notched to receive flange 11, as indicated in Fig. 1. The applied fuel may now be ignited and the hood then placed in position over the stump or the hood may be first placed and the fire then started through the medium of burner 3. In the latter event, valve 6 is opened with tube 2 suitably inclined for flow of fluid fuel from chamber 4 to the burner 3, where it is ignited upon escaping from the burner tip 3'. The tube is then inserted in one of the side openings, in the top of the hood, to position the burner, as may be found desirable, and collar 15 applied to said opening. Tube 2 may now be shifted in collar 15 to carry burner 3 to various points or to direct the angular extremity of the tube for delivery of air to promote combustion of the solid material inclosed by the hood. In this connection, it will be observed, that tip 3' extends forwardly of the tube to direct the fluid for combustion in the path of air passing into the combustion chamber from the tube.

Having thus described our invention what we claim as new, and desire to secure by Letters Patent of the United States of America, is;—

A portable stump burning appliance adapted to be placed against or within a stump open at one end portion for the discharge of air, and a burner comprising a coil encircling the last named end portion of said tube and having a tip disposed outwardly thereof in the path of the air discharged therefrom.

Signed at Seattle, Washington, this 21st day of December, 1910.

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Witnesses:

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