

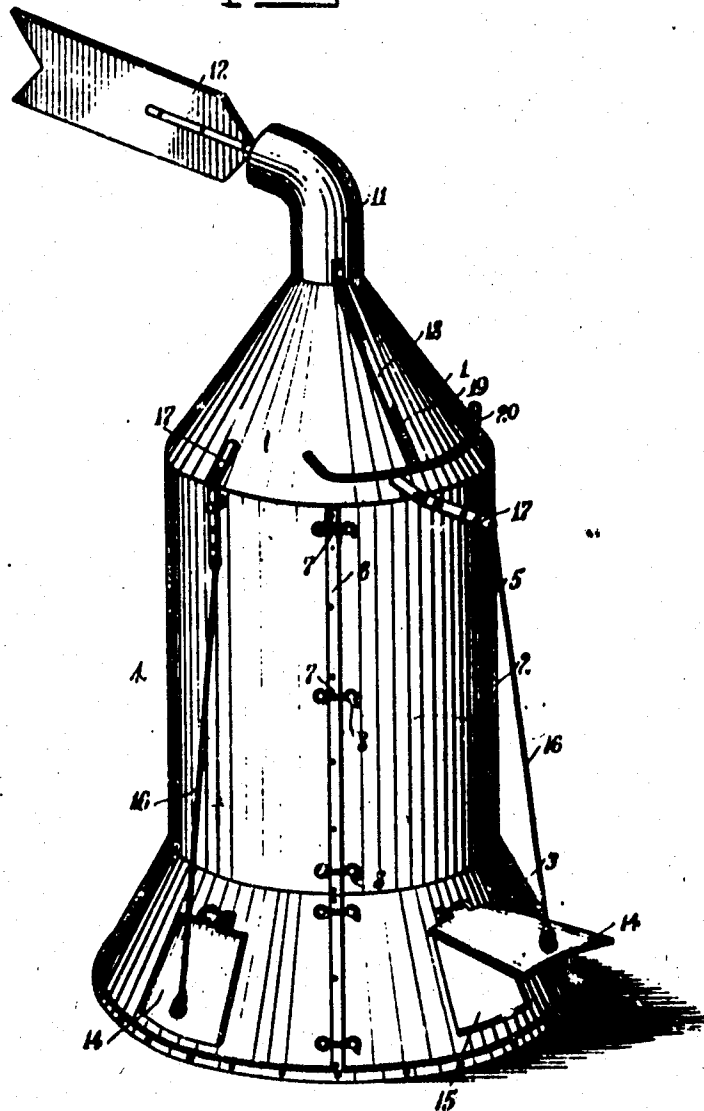
M. S. PRESLER.
STUMP ERADICATOR.
APPLICATION FILED JUNE 1, 1910.

984,965.

Patented Feb. 21, 1911.

2 SHEETS—SHEET 1.

Fig 1



WITNESSES:

J. A. Brophy
R. H. Loring

INVENTOR

Morton Seymour Presler

M. S. Co

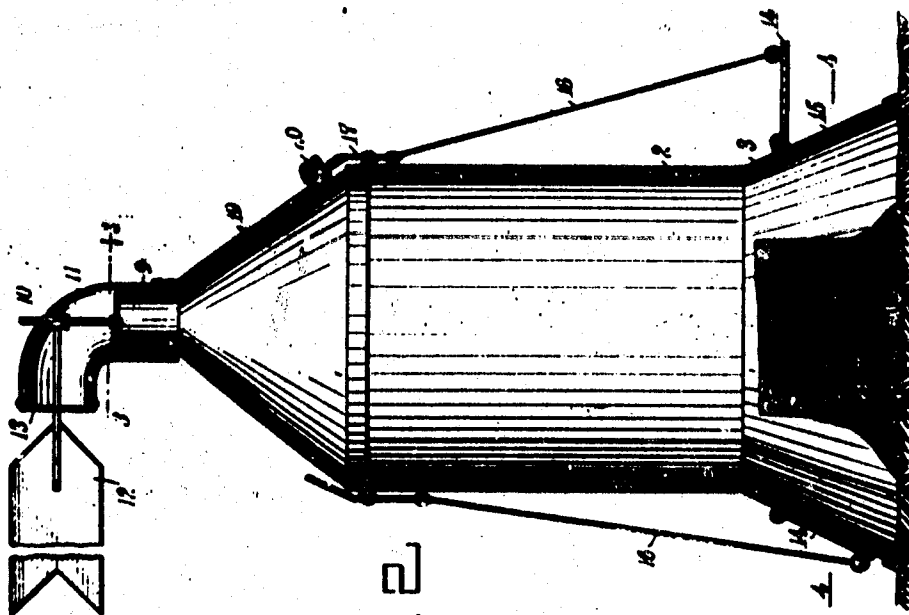
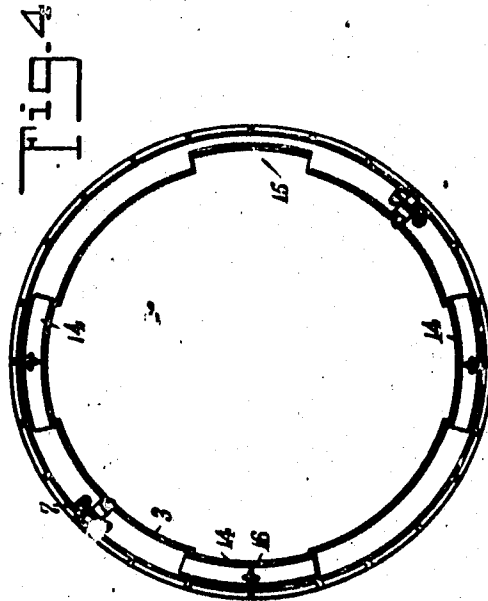
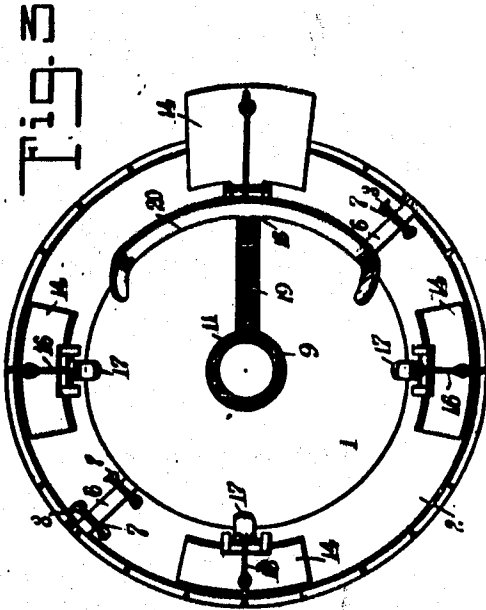
ATTORNEYS

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2 SHEETS - SHEET 2.



WITNESSES:

J. S. Propst
H. Whiting

INVENTOR
Morton Seymour Presler
BY *Munroe*
ATTORNEYS

UNITED STATES PATENT OFFICE.

MORTON SEYMOUR PRESLER, OF KELLOGG, IDAHO.

STUMP-ERADICATOR.

984,965.

Specification of Letters Patent. Patented Feb. 21, 1911.

Application filed June 1, 1910. Serial No. 522,411.

To all whom it may concern:

Be it known that I, MORTON SEYMOUR PRESLER, a citizen of the United States, and a resident of Kellogg, in the county of Shoshone and State of Idaho, have invented a new and Improved Stump-Eradicator, of which the following is a full, clear, and exact description.

This invention relates to a new and improved stump remover, of a type adapted to form a furnace around the stump and destroy the same by fire.

An object of this invention is to provide a device which will be simple in construction, inexpensive to manufacture, strong, durable, readily set up, and reliable in its operation.

A further object of this invention is to so construct the device that an opening will be presented to the wind from whatever direction it comes, adjacent the bottom thereof, so as to form an upward draft therein, and at the same time direct the outlet away from the wind, so as to cause a suction through the device.

These and further objects, together with the construction and combination of parts, will be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a perspective view; Fig. 2 is a vertical section; Fig. 3 is a horizontal section on the line 3—3 of Fig. 2; and Fig. 4 is a horizontal section on the line 4—4 of Fig. 2.

Referring more particularly to the separate parts of the device, it will be seen that it consists of a furnace having a top 1, an intermediate cylindrical body portion 2, and a bottom bell-shaped portion 3, formed of any suitable material, such as sheet iron. The intermediate portion 2 and the bottom 3 are connected together and formed of two sections 4 and 5, joined along vertical lines and having strips 6 secured to one of the sections, as by means of rivets, and overlapping the other section, to form comparatively tight joints. The two sections 4 and 5 may be secured together in any well known manner, as, by means of hooks 7 pivotally secured to one of the sections and engaging pins 8 on the other section.

The top 1 is preferably conical in shape, converging upwardly to a cylindrical stub pipe 9. Supported on the top in any well known manner, there is provided a pin 10, on which is rotatably supported an elbow pipe outlet 11. Secured to the elbow pipe 11, and rotatably supported on the pin 10 in any well known manner, there is provided a vane 12, which is adapted to point up into the wind and thereby rotate the elbow pipe 11, so as to keep its outlet, indicated at 13, always facing away from the wind, so that a suction draft will be created inside of the furnace.

Each of the bell-shaped portions of the sections 4 and 5 are provided with two doors 14, which normally close openings 15 in the bottom 3. The manner of opening these doors may be of any suitable character, as for example, by sliding in guides, but they have been shown as pivoted to the bottom so as to swing outwardly. There are four of these openings and doors therefor in the bottom 3, extending in directions substantially right-angles to each other, so that one door may be opened to either the north, east, south or west, according to the direction of the wind. For the purpose of automatically opening these doors, they are each connected, by connecting members 16, to levers 17 pivoted to the intermediate body portion 2 in any well known manner, and being bent over at their opposite end to conform substantially to the slope of the top 1.

Secured to the elbow pipe 11, there is provided a trip 18, which is adapted to actuate the levers 17, so as to open the doors 14. The trip is so disposed on the elbow pipe 11 that it will open the door opposite to the vane 12; that is to say, on the side corresponding to that in which the wind is coming from. The trip 18 may be of any suitable form, and is shown as consisting of a rod 19 extending down in parallel relation with the sloping top 1 and provided with a bar 20 at its lower end, the extremities of which are turned up, so as to form a runner which will readily ride on the levers 17. The runner 20 is preferably long enough so as to operate the next adjacent lever to open the corresponding door before leaving the preceding lever, so that one of the doors will be open at all times.

The operation of the device will be readily understood when taken in connection with the above description. The side sections 4

and 5, and the top, may be adjusted around a stump and secured together, and the stump may be ignited by pouring kerosene thereon, or building a small fire around the same.

5 The furnace is then left to itself, allowing the wind to complete the operation of destroying the stump. If the wind blows from the east, the opening to the outlet pipe 11 will face the west, so that a strong suction draft will be created through the furnace. At the same time, the door 14 facing the east will be opened, and a forced draft, due to the wind, will be admitted through the opening 15 adjacent the base of the furnace, so that the stump will be quickly consumed. No matter which way the wind blows, the device will automatically adjust itself to obtain the best draft possible.

20 While I have shown one embodiment of my invention, I do not wish to be limited to the specific details thereof, but desire to be protected in various changes, modifications and alterations which I may make within the scope of the appended claims.

25 Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

1. A stump eradicator, comprising a body portion having a plurality of openings adjacent the base thereof, doors for closing said openings, and wind-operated mechanism for controlling the opening and closing of said doors.

35 2. A stump eradicator, comprising a body portion having a plurality of openings therein adjacent the base thereof, doors for

closing said openings, and a wind-vane for opening said doors.

3. A stump eradicator, comprising a body portion having a plurality of openings adjacent the bottom thereof, an elbow outlet rotatably supported on said body portion, a vane for controlling the rotation of said outlet, doors for closing said openings and means connected to said outlet for controlling the opening and closing of said doors.

4. A stump eradicator, comprising a body portion having a plurality of openings therein, adjacent the base thereof, doors for closing said openings, levers connected to said doors, a trip for operating said levers to open said doors, and a vane for operating said trip.

5. A stump eradicator, comprising a body portion having a plurality of openings adjacent the base thereof, doors for closing said openings, levers connected to said doors and adapted to operate the same, an elbow outlet pipe rotatably supported on said body portion, a vane for directing said outlet pipe according to the direction of the wind, and a runner connected to said pipe and adapted to operate said levers, said runner being of sufficient length to always maintain at least one of said doors open.

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

MORTON SEYMOUR PRESLER.

Witnesses:

WILLIAM M. RIDGS,
WILLIAM TURTON.