No. 790,636. PATENTED MAY 23, 1905.

C. N. HUBBARD.

STUMP BURNER.

APPLICATION FILED SEPT. 28, 1904.

Fig. 1.

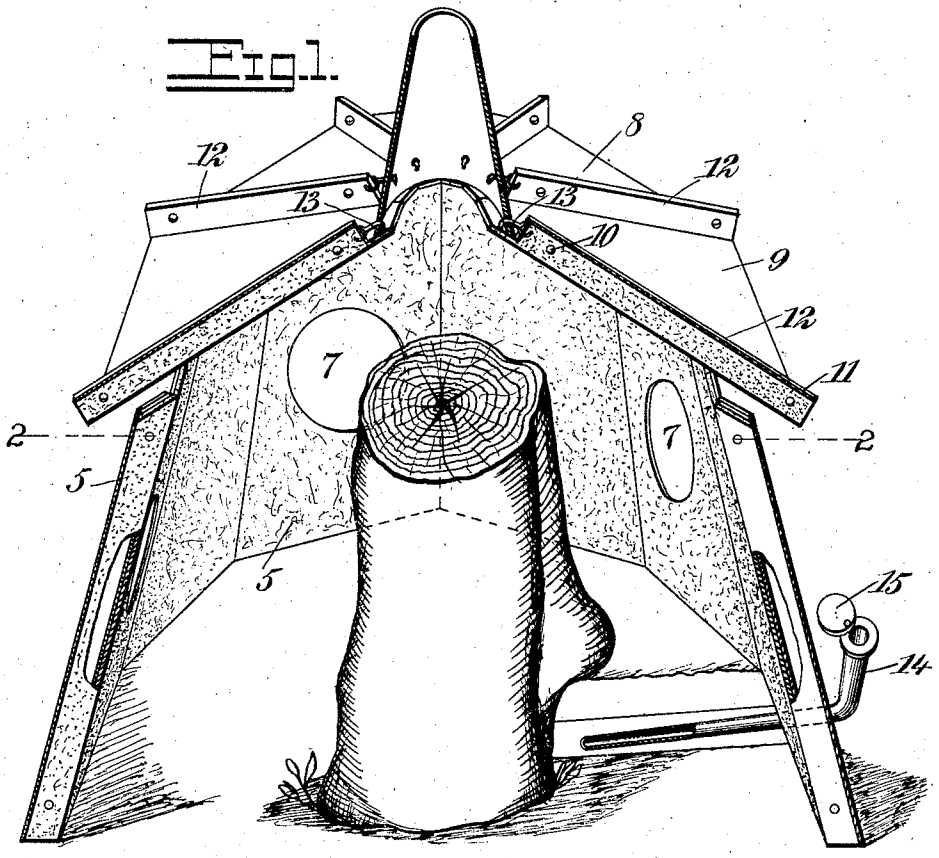


Fig. 3.

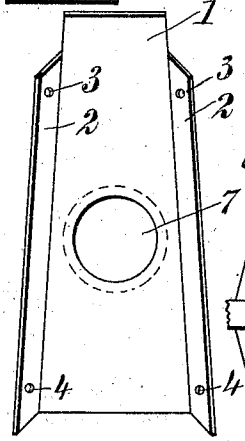


Fig. 2.

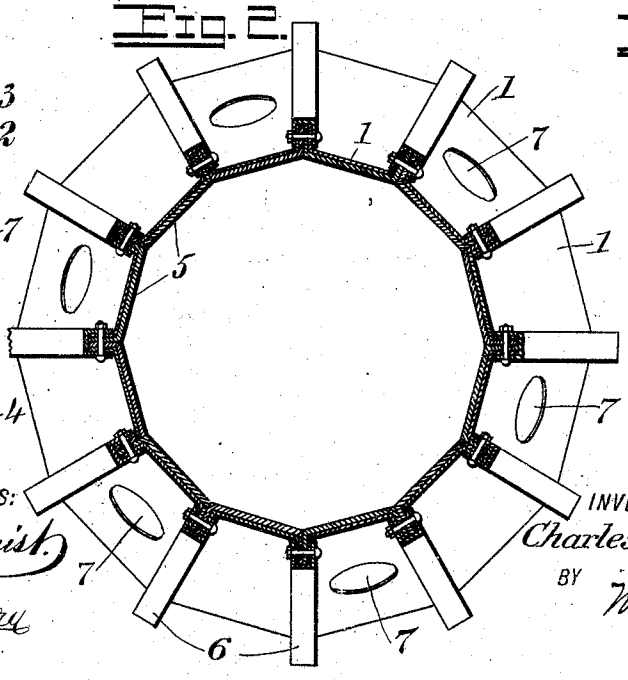
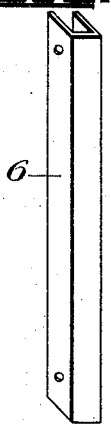


Fig. 4.



WITNESSES:

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No. 790,636. Patented May 23, 1905.

UNITED STATES PATENT OFFICE.

CHARLES N. HUBBARD, OF BEE, WASHINGTON.

STUMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 790,636, dated May 23, 1905.

Application filed September 28, 1904. Serial No. 226,306.

To all whom it may concern:

Be it known that I, CHARLES N. HUBBARD, a citizen of the United States, and a resident of Bee, in the county of Pierce and State of Washington, have invented a new and Improved Stump-Burner, of which the following is a full, clear, and exact description.

My invention relates to that class of devices known as "stump-burners," and has for its object the simplification of construction, reduction in cost, and increase in efficiency of the operation of the same.

A further object of my invention is to provide a stump-burner by means of which a stump can be burned near other combustible objects without injuring the same even on a windy day.

With these and other objects in view my invention consists in the arrangement and combination of parts, as will more fully appear in the detailed description appended hereto and definitely 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.

Figure 1 is a perspective central sectional view of my stump-burner in position for use. Fig. 2 is a horizontal section of the same on the line 2 2 of Fig. 1. Fig. 3 is an elevation of one of the panels, and Fig. 4 is a perspective view of the connecting-piece.

My stump-burner consists of a series of panels 1, all of substantially the same size and shape. These panels have flanges 2 integral therewith and bent at a proper angle to the body of the panel, so that when the flanges of adjacent panels are fastened together there will be formed a closed receptacle, substantially as shown in the drawings. These flanges 2 have holes 3 4 near their upper and lower ends. Said flanges 2 do not extend quite to the top of the panels for the purpose of allowing a cover to fit tightly thereon. These panels have preferably applied thereto sheets 5, of asbestos or like material. These sheets are placed on the inside of the panels for the purpose of confining the heat within the inclosure, thus protecting surrounding objects while combustion of the stump takes place.

The means for fastening the panels together preferably consists of U-shaped pieces 6, which have holes at their opposite ends to aline with the holes in the flanges of the panels 1. In forming the receptacle the flanges of adjacent panels are placed together, a U-shaped piece 6 is placed thereover, and bolts are passed through the openings in the ends of the pieces 6 and the corresponding openings in the flanges.

By varying the number of panels used for constructing the inclosure the size of the same may be varied as occasion requires.

At various points around the inclosure are placed panels with openings 7, which are covered with mica. These openings are for the purpose of allowing a view of the progress of combustion in the chamber. A cover 8 is provided for this inclosure and is constructed of panels 9, which are in every way similar to those used for forming the body of the inclosure. The panels 9 are of such size that they will exactly fit the upper ends of the panels 1 to make a reasonably tight inclosure. The upper ends of the panels 9 are in a like manner formed with their flanges ending near the top. Holes 10 and 11 are formed in the upper and lower ends of flanges 12 on said panels 9 for receiving means for fastening the different panels together in a manner similar to those of the body. The panels 9 are also preferably provided with an asbestos lining. At the upper ends of the flanges 12 are secured hooks 13, which are adapted to engage the lower end of a short piece of ordinary stovepipe placed over the opening in the top of the cover. This opening naturally results from the construction of the panels and varies in size according to the number of panels used, and this number should be the same as the number used for the body of the inclosure. The hooks 13 hold the stovepipe securely in place, so that it cannot drop off accidentally.

Means for introducing air so as to create a draft is provided by introducing a pipe 14 underneath the side of the inclosure and providing the same with a hinged cover 15. By means of this cover the amount of air to be introduced can be regulated. The reason for

introducing the air at the bottom is to bring it in contact with the burning stump at the base of the same, which is always the most difficult part to consume.

While the construction above set forth is the one I prefer, I do not wish to be limited to the precise details set forth therein, but only in so far as included in the claims.

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

1. In a stump-burner, the combination of a receptacle for inclosing a stump, composed of detachable panels, a cover on said receptacle, and means for supplying a draft of air to said receptacle, substantially as described.

2. In a stump-burner, the combination of a receptacle for inclosing a stump, composed of detachable panels lined with asbestos or like material, a cover on said receptacle, and means for supplying a draft of air to said receptacle, substantially as described.

3. In a stump-burner, the combination of a receptacle for inclosing a stump, composed of detachable panels, a cover, also formed of detachable panels, on said receptacle, and means for supplying a draft of air to said receptacle, substantially as described.

4. In a stump-burner, the combination of a receptacle for inclosing a stump, composed of detachable panels, a cover, also formed of detachable panels, on said receptacle, said cover having an opening in its center, a pipe communicating with said opening, and means for supplying a draft of air to said receptacle, substantially as described.

5. In a stump-burner, the combination of a receptacle for inclosing a stump, composed of detachable panels, a cover, also formed of detachable panels, on said receptacle, said cover having an opening in its center, a pipe communicating with said opening, and means for supplying a draft of air to said receptacle near its bottom, substantially as described.

6. A stump-burner constructed of circularly-disposed vertically-divided panels, and a cover therefor, constructed of corresponding radially-divided panels, the panels of each set being detachably secured together, whereby the number thereof may be increased or diminished.

7. A stump-burner, comprising means for inclosing a stump, a cover therefor, constructed of radially-divided panels having flanges at their edges, and means for detachably securing together the flanges of adjoining panels, whereby the number of panels may be increased or diminished.

8. A stump-burner, comprising means for inclosing a stump, constructed of vertically-divided panels, having flanges at their edges, means for detachably securing together the flanges of adjoining panels, whereby the number of panels may be increased or diminished, and a cover for said means.

9. A stump-burner, comprising means for inclosing a stump, constructed of vertically-divided panels having flanges at their edges, a U-shaped device detachably embracing each pair of flanges, and detachable fastening means extending through said device and said flanges, whereby the number of panels may be increased or diminished.

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

CHARLES N. HUBBARD.

Witnesses:
S. J. MURPHY,
GEO. HARRISON.