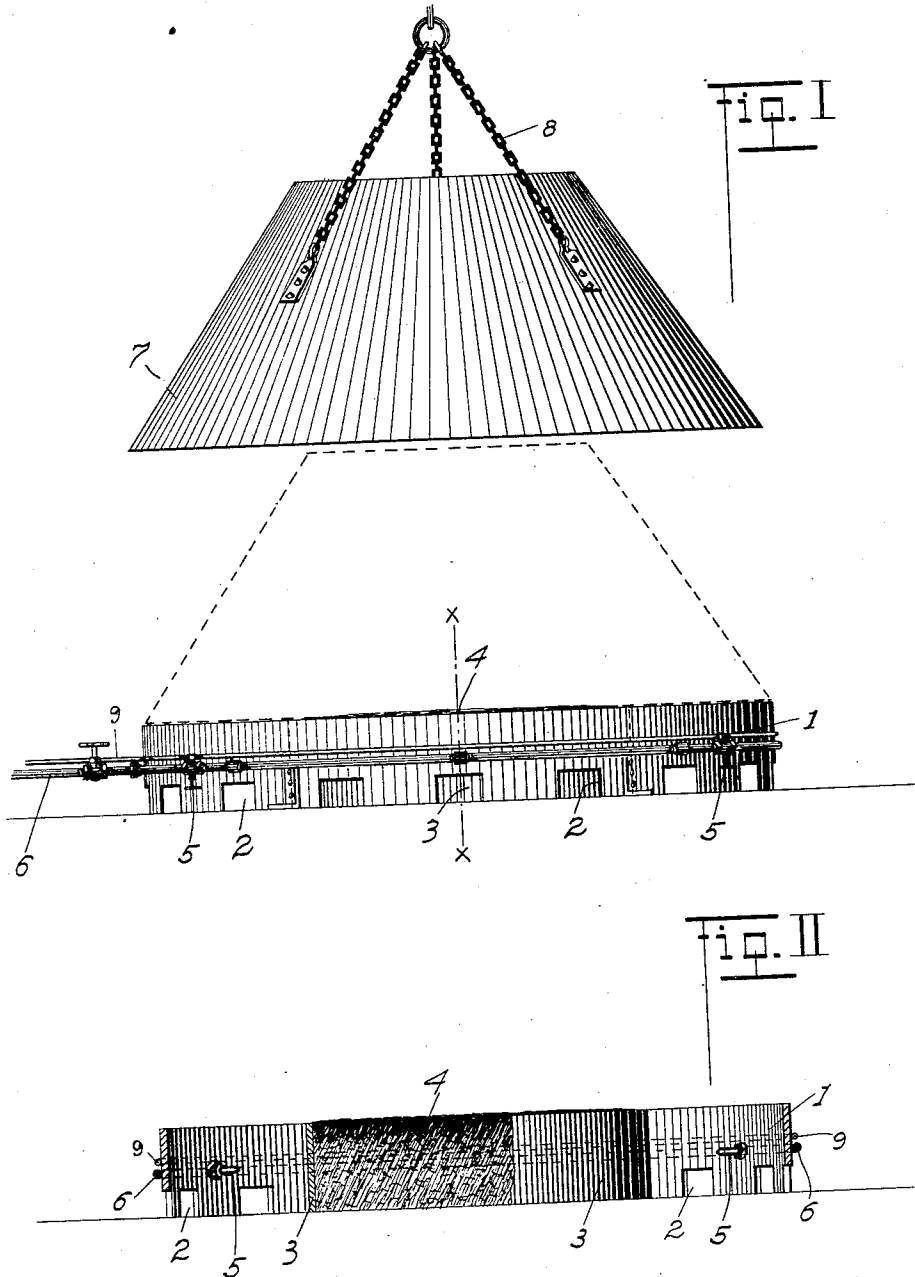


W. D. RAMBO.
FURNACE.
APPLICATION FILED SEPT. 19, 1910.

Patented Jan. 14, 1913.

1,050,392.



Witnesses

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WILLIAM D. RAMBO, OF SONOMA, CALIFORNIA.

FURNACE.

1,050,392.

Specification of Letters Patent.

Patented Jan. 14, 1913.

Application filed September 19, 1910. Serial No. 582,680.

To all whom it may concern:

Be it known that I, WILLIAM D. RAMBO, a citizen of the United States, residing at Sonoma, in the county of Sonoma, State of California, have invented certain new and useful Improvements in Furnaces; and I do declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in furnaces and particularly to a furnace for heating vehicle tires the object of the invention being to produce a furnace which will heat the tire all around at one time with an even heat thus permitting it to be readily handled when placed on the wheel while in this heated condition.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purposes for which it is designed.

These objects, I accomplish by means of such structure and relative arrangement of parts as will fully appear by a perusal of the following specification and claims.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a side elevation of my improved furnace. Fig. 2 is a sectional view taken relatively on a line X—X of Fig. 1.

Referring now more particularly to the characters of reference on the drawings, I first provide an outer furnace wall 1 which is substantially cylindrical in shape and provided with a plurality of air inlets 2 in its lower edge. Disposed centrally within said wall 1 and spaced from the inner side thereof is a central drum or retaining receptacle 3 which is filled with earth or other desired material 4 which forms a substantial fire wall or back against which the flame from the oil burners 5 strikes. These oil burners are connected with a fuel supply pipe 6 and an air supply pipe 9 which extends about two thirds around the member 1 the oil burners being connected with said

pipes and projected from said wall 1 throwing their flames within said wall 1 and around said member 3—4 the said burners 55 being properly inclined for the purpose.

In practice the tire to be heated is placed within the member 1 and around the member 3—4 and thus the flames from the oil furnaces are thrown on said tire and the same 60 is heated nearly at an even heat for its entire circumference and may then be taken out and fitted on to the wheel while hot and evenly heated. In order to facilitate the heating, I have a substantially frusto- 65 pyramidical hood 7 which has a suitable chain-hanger 8 whereby it is lowered to fit over the member 1 after the tire is placed therein, the upper edge of said hood being open thus forming a draft through the mem- 70 bers 2 and out through the top of the said hood 7.

From the foregoing description it will readily be seen that I have produced such a heating furnace as substantially fulfils the 75 objects of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not 80 form a departure from the spirit of the invention.

Having thus described my invention what I claim as new and useful and desire to secure by Letters Patent is:

A heating furnace comprising an outer 85 cylindrical wall having a plurality of air inlets in its lower edge, a cylindrical drum disposed within said outer wall at a spaced distance therefrom, said cylindrical drum 90 being filled with earthen material, a plurality of oil burners projecting through the upper portion of said outer wall, a fuel supply pipe extending around said outer wall and communicating with said oil burn- 95 ers, and an independent air supply pipe extending around said outer wall and being connected with said oil burners as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM D. RAMBO.

Witnesses:

H. H. GRANICE,
A. BERETTA.