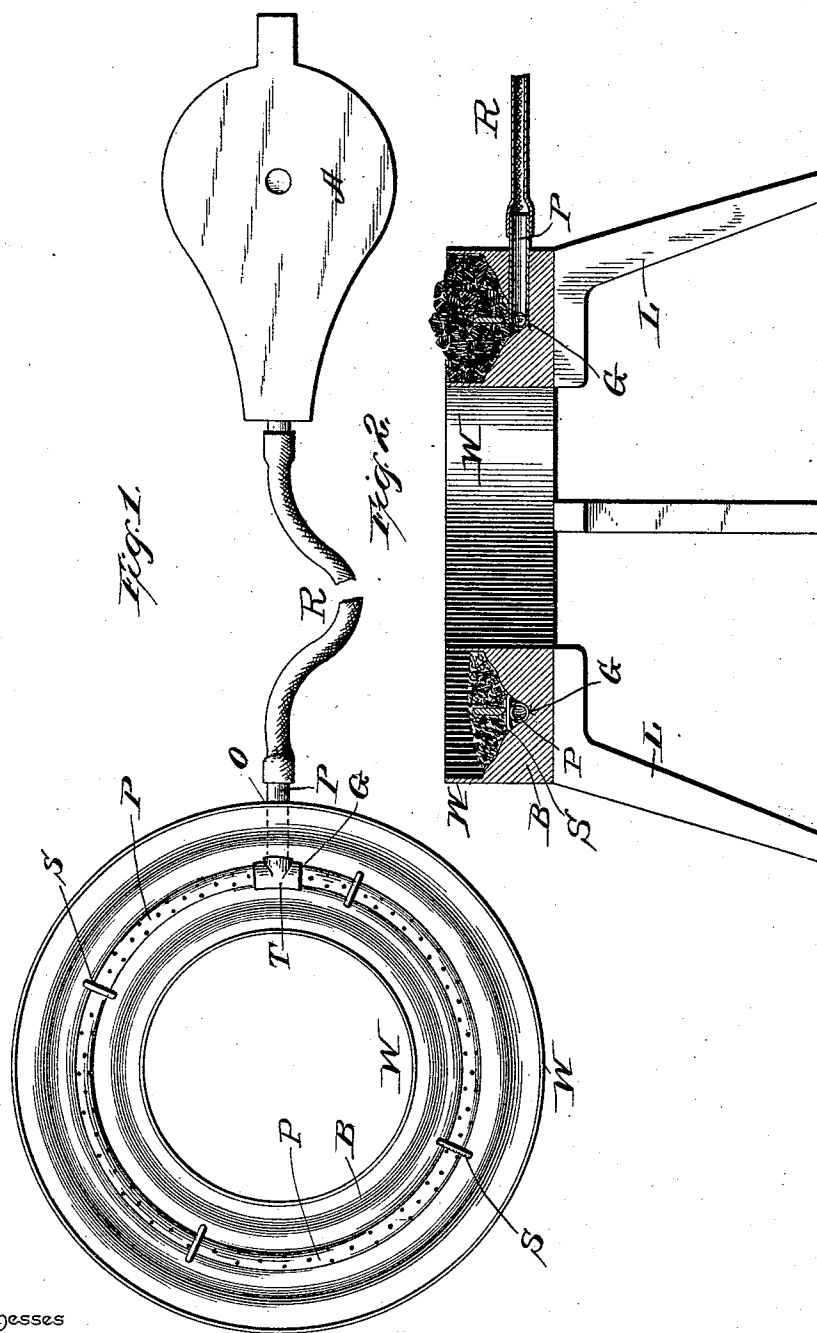


(No Model.)

W. R. CULLISON.
TIRE HEATER.

No. 468,908.

Patented Feb. 16, 1892.



Witnesses

E. H. Mordeman

J. C. Colamer

Inventor

By his Attorneys, *W. R. Cullison*

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

WILLIAM R. CULLISON, OF ENGLEWOOD, ILLINOIS, ASSIGNOR OF ONE-THIRD TO JAMES CULLISON, OF SAME PLACE.

TIRE-HEATER.

SPECIFICATION forming part of Letters Patent No. 468,908, dated February 16, 1892.

Application filed December 14, 1891. Serial No. 415,003. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. CULLISON, a citizen of the United States, residing at Englewood, in the county of Cook and State of Illinois, have invented a new and useful Tire-Heater, of which the following is a specification.

This invention relates to wagon-irons, and more especially to the furnaces for heating tires; and the object of the same is to effect certain improvements in devices of this character.

To this end the invention consists in a furnace constructed substantially as hereinafter more fully described and claimed, and as illustrated on the accompanying sheet of drawings, wherein—

Figure 1 is a plan view of this improved furnace. Fig. 2 is a cross-section thereof, showing the coal at one side as nearly burned out.

Referring to the said drawings, the letter B designates the body of this improved furnace, which may be supported on legs L, so as to render it portable, if desired. This body is ring-shaped or annular, and inner and outer side walls W rise from its edges, so as to form an annular trough. The upper face of the body, and hence the bottom of the trough, is inclined, as at I, from each wall toward a deep central groove G, extending around the bottom of the trough, and in this groove stands a piece of gas or other pipe P, having about three or more rows of perforations in its upper face, as shown in Fig. 1. The pipe extends completely around the body and passes under supporting-bars S, which stand across the groove G, and the ends of the pipe enter a T-joint T, which passes out through the body, as at O, and is connected with a piece of rubber hose which in turn is adapted to be detachably connected with the ordinary blacksmith's bellows or other source of air-supply A.

In use the trough is filled or partially filled with wood, peat, coal, or charcoal, (preferably the latter,) and ignited, the tire being embedded in the charcoal and preferably resting on the supporting-bars S, as seen in Fig. 2. The bellows being then manipulated, a draft of air is forced into the pipe and passes out the perforations therein, thus supporting combustion, and as the charcoal burns and crumbles into ashes it slides down

the inclined sides I of the bottom of the trough onto or against the tire, so that the latter is always in contact with the burning pieces of fuel.

The provision of the rubber hose permits the furnace to be detachably connected with the ordinary bellows in the shop, and after use the furnace can be removed to a convenient place of storage.

The materials and sizes of parts are such as will best adapt the device for the uses to which it is to be put.

Although not so shown, obviously a cover might be supplied, and other changes in the minor details of construction could be made without departing from the spirit of my invention.

What I claim as new is—

1. The herein-described tire-heating furnace, the same comprising an annular trough-shaped body whose bottom inclines from each of its walls to the center of the trough and there has an annular groove, a perforated pipe standing in this groove, and its ends connected to a T-joint passing out through the outer wall of the body, a piece of hose on the outer end of said pipe, supports for the body, and supporting-bars at several points within said trough, standing above the pipe, all as and for the purpose hereinbefore set forth.

2. The herein-described tire-heating furnace, the same comprising an annular trough-shaped body whose bottom inclines from each of its walls to the center of the trough and there has an annular groove, a perforated pipe or pipes standing in this groove, and supporting-bars at several points within said trough standing above the pipe, all as and for the purpose set forth.

3. The herein-described tire-heating furnace, comprising the trough-shaped body adapted to receive the tire, the bottom of the body inclining downward to the center thereof, forming an annular groove, and a perforated pipe or pipes seated in the groove, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM R. CULLISON.

Witnesses:

ROBERT E. BUSH,
REUBEN BUSH.