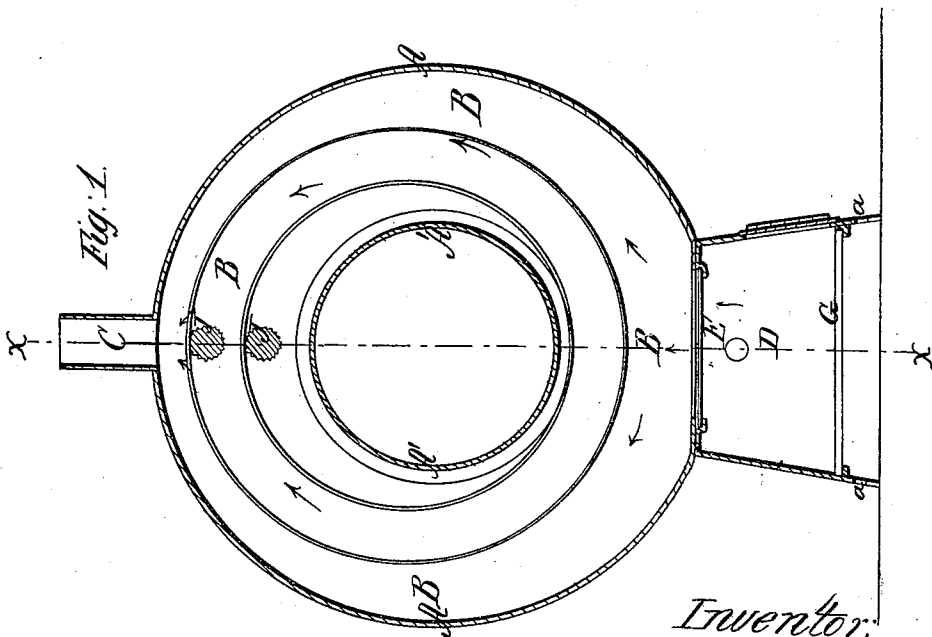
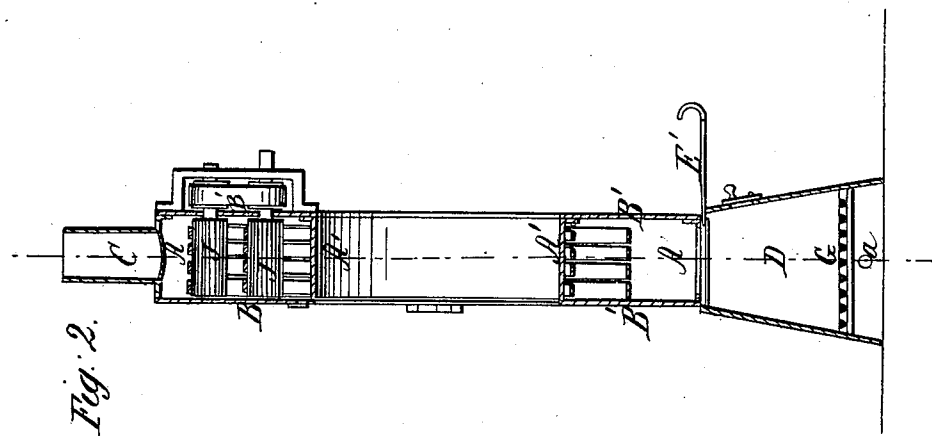


I. N. WHITAKER.
TIRE HEATING FURNACE.

No. 28,721.

Patented June 12, 1860.



Witnesses;
R. S. Spencer
J. W. Corvins

Inventor;
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per Munn & Co
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UNITED STATES PATENT OFFICE.

ISAAC N. WHITAKER, OF FORESTON, ILLINOIS, ASSIGNOR TO HIMSELF AND J. L. FREES
AND M. HELLAR.

APPARATUS FOR HEATING WAGON-TIRES.

Specification of Letters Patent No. 28,721, dated June 12, 1860.

To all whom it may concern:

Be it known that I, ISAAC N. WHITAKER, of Foreston, in the county of Ogle and State of Illinois, have invented a new and useful

5 Device for Heating Wagon-Tires; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this specification, 10 in which—

Figure 1 represents a vertical longitudinal section taken through my tire-heater, showing in red lines tires of different sizes placed therein and hung in such a manner as to be 15 removed. The furnace, damper and smoke pipe are clearly shown in this figure, with arrows showing the direction the currents of air take in passing through the heater. Fig. 2 is a transverse vertical section taken 20 through Fig. 1 as indicated by the red line *x, x*, marked thereon. This figure shows a nest of tires arranged so as to be heated at one time.

Similar letters of reference indicate corresponding parts in both figures.

To enable those skilled in the art to fully understand my invention I will proceed to describe its construction and operation.

In the drawings, A A represent two concentric cylinders of a suitable diameter, and made of cast-iron or other metal. These cylinders form a circular space, or tire box B, which is closed up with two rings or 30 heads B', B', on each side, one of which heads is suitably hinged and can be opened or closed at pleasure.

This apparatus is rested upon or it may form a part of the furnace D, a hole being cut through the outer cylinder, which is furnished with a damper E, for closing up this 40 opening when necessary. The furnace D, is provided with grate bars G, door and ash box, and it may have an opening similar to that indicated by *a*, in its end to which may 45 be applied the nozzle of a bellows for facilitating draught and thus heating up quicker.

In the top of the outer cylinder A, is a smoke pipe C, which conducts the smoke, etc., off—like an ordinary smoke pipe—outside of the shop.

J, J, are serrated rollers equal in length to the width of the two cylinders, and having their bearings in the top part of and between the cylinders, as clearly shown by the drawings. Over these rollers J, J, the 55 tires are placed, as clearly represented, the larger ones on the highest roller, and the smaller ones on the lowest roller. The fire is made in the furnace below, the cylinders are closed up tightly, and the fire heat and 60 smoke all pass round the tires and impinge on the same until it finally passes out through the escape pipe C, at the same time the tires can be revolved while in their box and new surfaces thus be brought in close 65 proximity to the fire bed.

From this description it will be clearly seen that the old method of heating tires and the objections attending the out-door fire are obviated. The apparatus may be 70 used as a stove in the shop, at the same time it will serve to heat tires—thus I obtain a great saving of fuel. The furnace and the circular box may be made of any suitable heat retaining material but cast-iron 75 will be preferable and cheap and answer every purpose.

Having thus described my invention what I claim and desire to secure by Letters Patent, is:—

The combination with the outer periphery of the tire box B, of the furnace D, and smoke box C, when said tire box is arranged to stand vertically as shown and is provided in its upper part with rollers J, J, by which 85 the tires are suspended and rotated, all as herein set forth and represented for the purpose specified.

ISAAC N. WHITAKER.

Witnesses:

H. M. CLOPPER,
ERNST HEINEN.