

(No Model.)

M. HOYT.

TIRE HEATING FURNACE.

No. 334,952. Patented Jan. 26, 1886.

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TIRE-HEATING FURNACE.

SPECIFICATION forming part of Letters Patent No. 334,952, dated January 26, 1886. Application filed October 31, 1884. Serial No. 146,902. (No model.)

To all whom it may concern.-

Be it known that I, MONTRAVILLE HOYT, of Jamaica, in the county of Queens and State of New York, have invented an Improved Heater for Gementing Rubber Tires, of which the following is a specification.

Rubber tires upon the wheels of bicycles and tricycles frequently become loose in places, in consequence of sudden lateral strain or concussion against the

projecting band of rubber, and to reattach such tire to the grooved metallic felly is attended with difficulty, because the heating-flame has to be kept in

contact with the surface of the metal felly a sufficient length of time to heat the same for quite a distance along such felly, and the metal conducts the

heat each way from the place where the heatingflame is applied, and the heat has to be sufficient to melt the cement between the rubber and the telly.

My improvement relates to a lampreservoir constructed so that the burners upon such reservoir can be applied directly beneath the telly with a burner at each

side of a spoke, thereby allowing the required heat to be directed upon the felly without being interfered with by the spokes, that are comparatively close together.

In the drawings, Figure 1 is an elevation of part of a wheel with the heater applied thereto. Fig. 2 is a section of the same. Fig. 3 is a plan; Fig. 4, an elevation of the heater in larger size; and Fig. 5 is an elevation of the heater and a section of the wheel with only one burner of the heater in use.

The rubber tire a is usually cemented into the half-circle felly b, and the spokes a pass through this felly and act by tension to suspend the hub from the felly.

The heater is composed of the reservoir 0 and the burnersfg. The burners are usually adapted to alcohol, so that the flame will heat the telly without

smoking the same. The reservoiris not made rectangular or elliptical, as usual; but one side of the reservoir is concave or recessed, as at h, so that the

reservoir can be applied with one spoke between the two burners, as seen in Figs. 1 and 3, and the burners will be in the plane of the spokes and felly, and

hence the flames from the burnerwicks will be directly in line with and beneath the felly.

In order to apply the heater efficiently to the telly, it must remain quiescent

and at the proper distance below the metal, so that the flame will spread

against the under side of the telly. I therefore suspend the heater by the wire hooks Z m, that are provided with straight horizontal lower portions passing

through loops a upon the top of the reservoir. The hooked ends of Z m are to be passed over the rubber tire, as shown, and the loops a may be moved along

either way upon the horizontal portions of the wire suspending-hooks to bring the heat of the flames under the center of the folly or more or less toward

either edge of the felly.

The two burners of the heater cannot easily be applied to the small wheel of a bicycle or tricycle, because the spokes are too close together. I therefore

provide a second set of loops, 8, upon the surface of the reservoir, so that the hooks can be changed from the loops a into the loops 8, and then the lamp

can be suspended beneath the folly with only one burner in use, as seen in Fig. 5.

I claim as my invention-- 1. The heater for cementing rubber tires, composed of the reservoir for a fluid, such as alcohol, the burners, the loops upon the

reservoir, and the suspending-hooks, the lower portions of which pass through the suspending-loops, substantially as set forth.

2. The heater for cementing rubber tires, composed of a reservoir having a recess at one side, and two burners, and suspending-hooks, substantially as

specified, so that one of the spokes can be within the recess when the heater is in use, as set forth.

3. A heater for cementing rubber tires, composed of a reservoir for a burning-fluid, such as alcohol, a burner upon such reservoir, and hooks by which the

reservoir can be suspended from the wheel, as and for the purposes set forth. I

Signed by me this 24th day of October, A. D. 1884.

GEO. T. PINOKNEY, WILLIAM G. Morr.