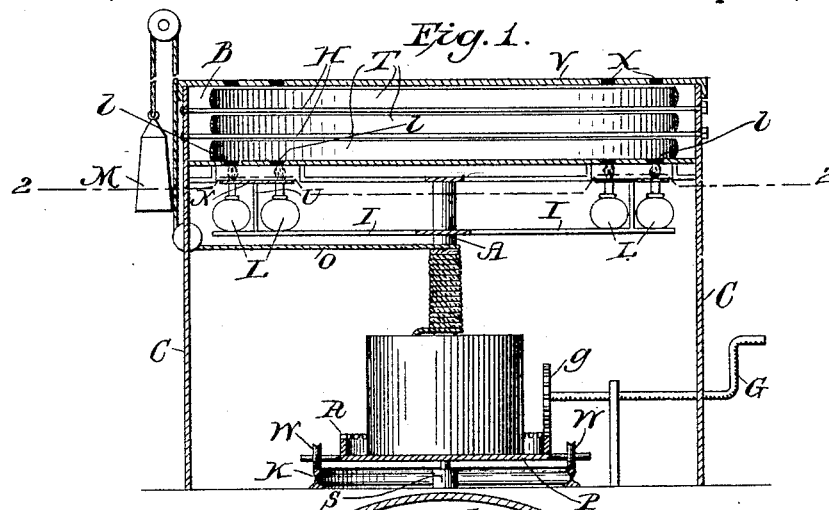


(No Model.)

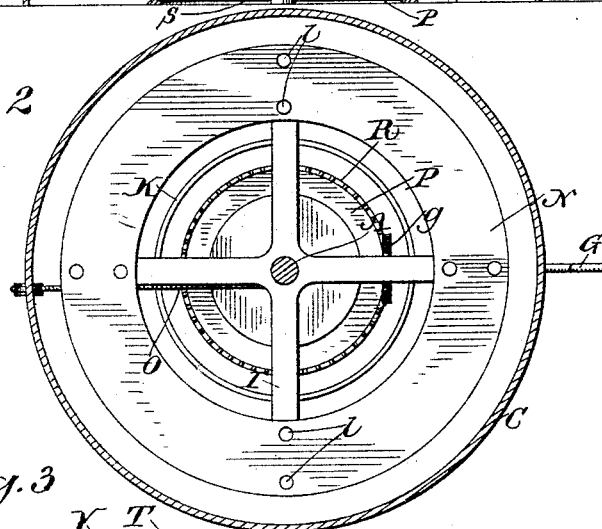
J. H. PARKS.  
TIRE HEATER.

No. 459,112.

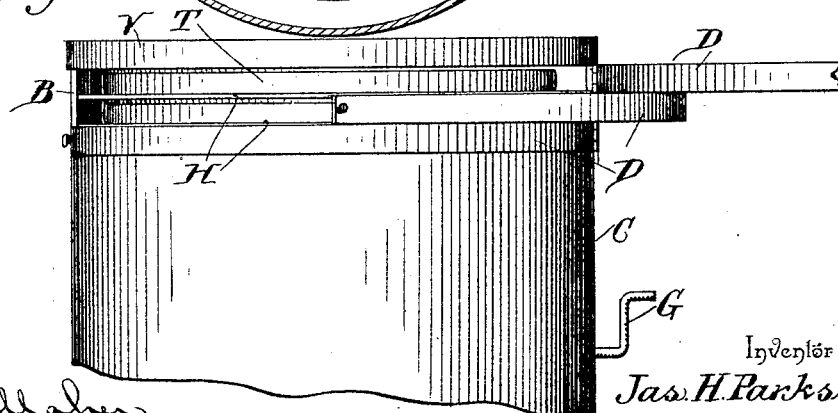
Patented Sept. 8, 1891.



*Fig. 2.*



*Fig. 3.*



Witnesses  
E. M. Gallaher

*E. M. Gallaher*

By his Attorneys,

*C. A. Snow & Co.*

Inventor  
Jas. H. Parks

# UNITED STATES PATENT OFFICE.

JAMES H. PARKS, OF CLARENDON, TEXAS.

## TIRE-HEATER.

SPECIFICATION forming part of Letters Patent No. 459,112, dated September 8, 1891.

Application filed December 22, 1890. Renewed August 12, 1891. Serial No. 402,478. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES H. PARKS, a citizen of the United States, residing at Clarendon, in the county of Donley and State of Texas, have invented a new and useful Tire-Heater, of which the following is a specification.

This invention relates to tire-heaters, and the object of the same is to effect improvements thereon.

To this end the invention consists of the specific details of construction hereinafter more fully described and claimed, and as illustrated in the drawings, in which—

Figure 1 is a central vertical section of my improved device. Fig. 2 is a horizontal section on the line 2 2 of Fig. 1. Fig. 3 is a front elevation of my improved tire-heater.

Referring to the said drawings, the letter C designates a cylindrical casing supporting the tire-box B at its upper end. This tire-box is provided with a number of horizontal bars H, extending from front to rear and upon which the tires T are supported. The rear half of the box is closed, while the front half is open, and doors D, of semicircular form, close said open ends, or may be turned around to the back of the box to open the same, whereby the tires may be inserted into the front of the box and moved into correct position upon the horizontal bars H without necessarily lifting the tires.

The letter A designates an axis revolving at its lower end in a step S at the center of the casing, and having a plate P, provided with a toothed ring R and with wheels W, traveling upon a ring-shaped track K.

O is a rope or chain leading from a weight M over suitable pulleys to the axis A, around which it is wound, and the descent of the weight causes the rotation of the axis.

G is a regulating or governing crank whose shaft is journaled through the casing and carries a gear g, meshing with the rack R, and by this means the rotation of the axis A may be regulated by being assisted or retarded.

The letters I designate diverging arms secured to the axis, and L are lamps of any approved construction supported at the outer ends of said arms.

U are uprights carried by the arms, upon the upper ends of which uprights is mounted

an annular plate N, having wick-openings just over the burners of the said lamps, said annular plate moving beneath the bottom of the box B and below all the horizontal bars H.

In operation the lamps are lighted, the tires T placed within the box B, and the weight M allowed to descend, whereby the arms I, carrying the lamps L, will be revolved beneath the tires, the speed of their revolution being regulated by the operator through the regulating-crank G. The lamps in succession will pass any given point on the tire, and the latter will be slowly, uniformly, and thoroughly heated. If it be desired to heat any particular point, all the lamps but one are extinguished, and that one allowed to stand beneath such point or moved slowly back and forth beneath it by properly manipulating the cranks. The obvious purpose of having two or more lamps on each arm is in order that tires of different sizes may be heated without radially adjusting the position of the lamps. The top of the box B is preferably provided with a cover V, having exit openings or flues X for the products of combustion.

Other details in construction and relative arrangement of parts may be made without affecting the fundamental principles and essential characteristics of my invention.

What is claimed as new is—

1. In a tire-heater, the combination, with a revolving heating apparatus, of a stationary tire-box having horizontal rods extending from front to back, the front being open, and doors closing said open front, as and for the purpose set forth.

2. In a tire-heater, the combination, with a tire-box, of a vertical axis mounted in bearings, diverging arms carried by said axis and having uprights at their outer ends, an annular plate supported by said uprights and having holes, lamps mounted on said arms below said holes, and means for rotating said axis, as and for the purpose set forth.

3. In a tire-heater, the combination, with a tire-box having an open bottom, of a vertical axis mounted in bearings below the center of said box, diverging arms on said axis carrying lamps below said open bottom, a rope wound on said axis and leading over pulleys to a weight, and governing devices connected with said axis, all substantially as described.

4. In a tire-heater, the combination, with a  
tire-box having an open bottom, of a vertical  
axis mounted in bearings below the center of  
said box and carrying lamps moving below  
5 said open bottom, a rope wound on said axis  
and leading over said pulleys to a weight, a  
circular plate carried by the axis and having  
a toothed ring, a shaft having a gear engag-  
ing said ring, and a crank on the shaft, as and  
10 for the purpose set forth.

5. In a tire-heater, the combination, with a  
tire-box having an annular opening in its bot-  
tom, of a vertical axis mounted in bearings  
below the center of said box and standing at  
15 its lower end in a step, diverging arms on said  
axis carrying an annular plate moving below  
said opening and having holes therethrough,

lamps on said arms standing below said holes,  
a rope wound on said axis and leading over  
pulleys to a weight, a circular plate carried 20  
by the axis and having a toothed ring, wheels  
journaled on the edges of said plate, a circu-  
lar track on which said wheels travel, a shaft  
having a gear engaging said ring, and a crank  
on the shaft, all as and for the purpose here- 25  
inbefore set forth.

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

JAMES H. PARKS.

Witnesses:

GEO. W. GRAHAM,  
I. F. MARTINDALE.