

J. G. ROGERS.
Tire-Heating Furnaces.

No. 143,465.

Patented Oct. 7, 1873.

Fig. 1.

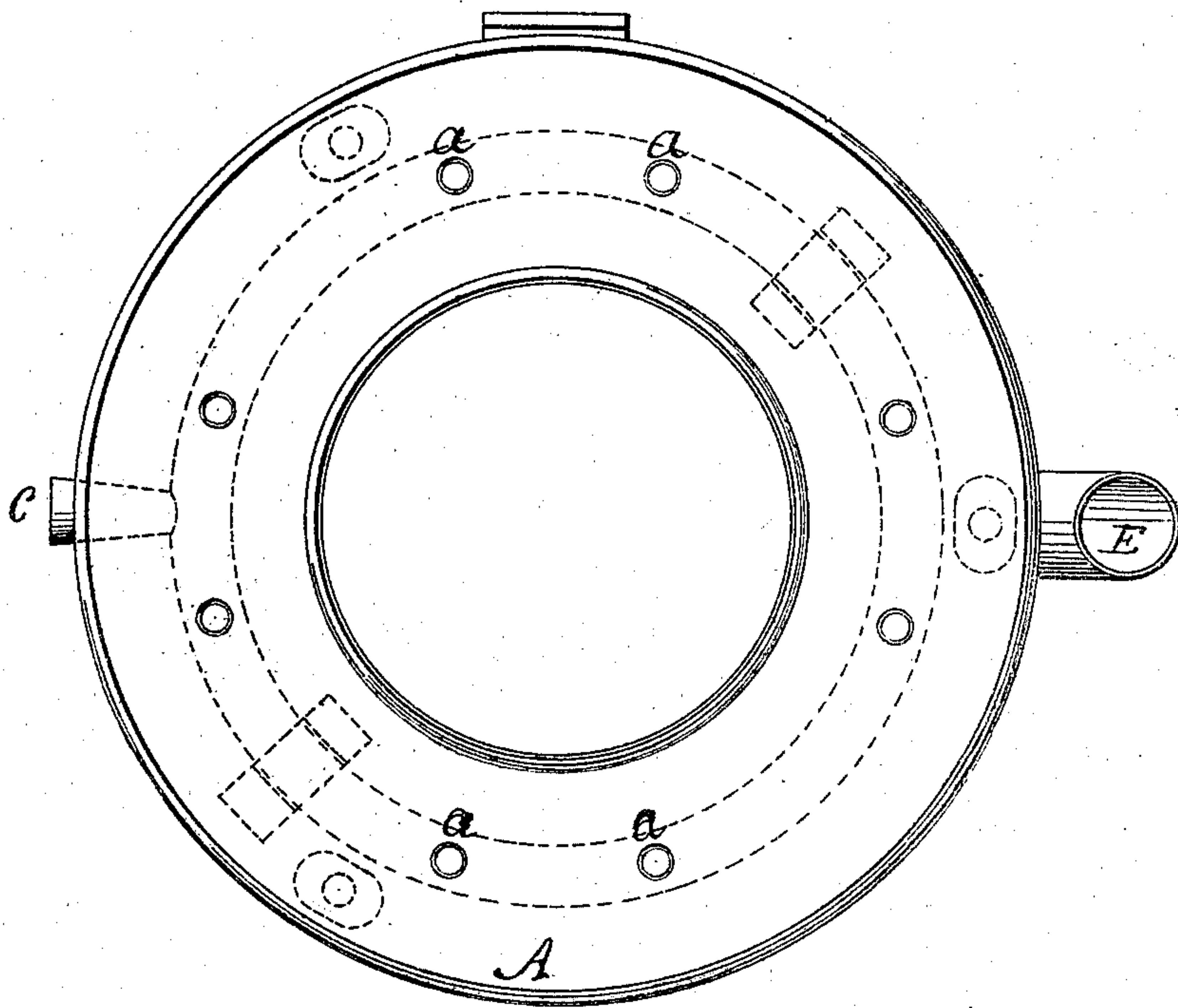
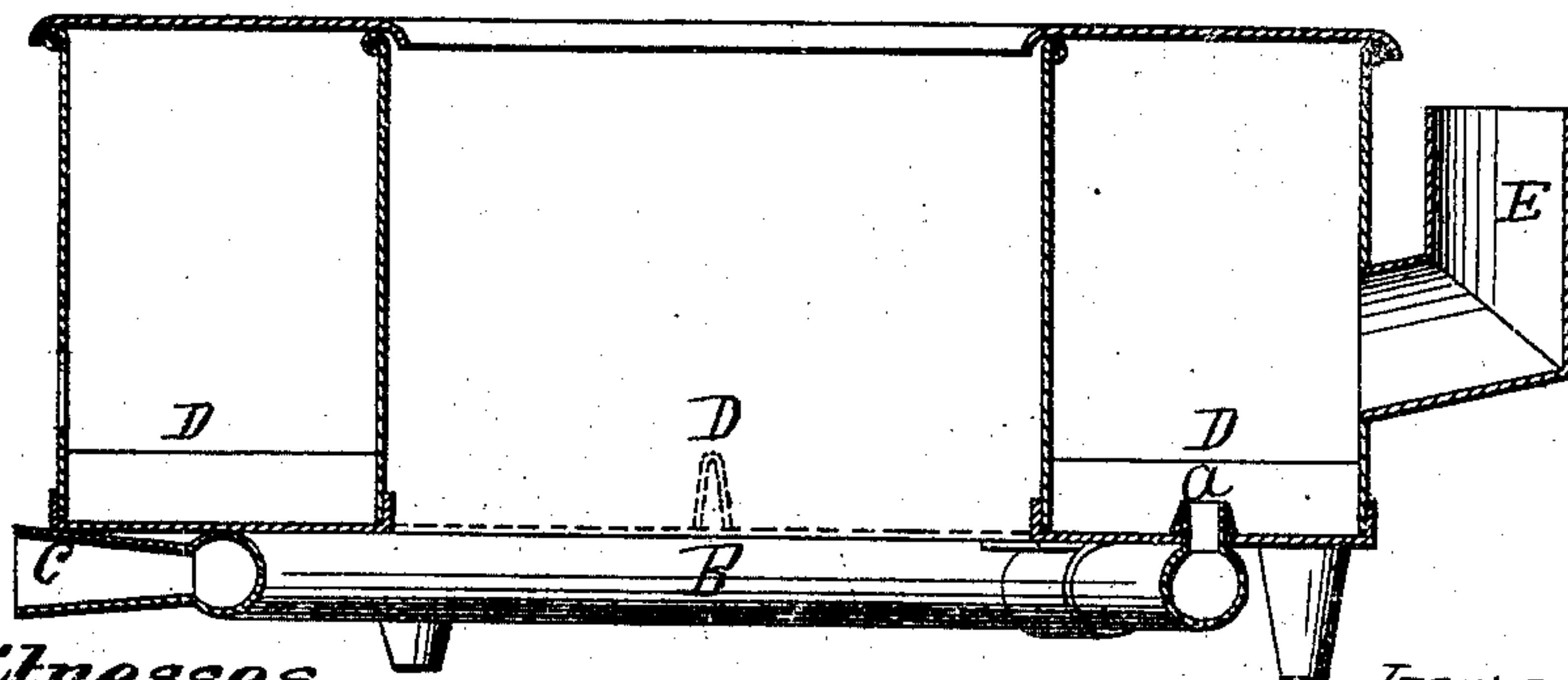


Fig. 2.



Witnesses.
H. Wheeler
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UNITED STATES PATENT OFFICE.

JOHN G. ROGERS, OF WILLIAMSBURG, OHIO, ASSIGNOR TO VOLNEY STOCKTON, OF SAME PLACE.

IMPROVEMENT IN TIRE-HEATING FURNACES.

Specification forming part of Letters Patent No. **143,465**, dated October 7, 1873; application filed May 1, 1873.

To all whom it may concern:

Be it known that I, JOHN G. ROGERS, of Williamsburg, in the county of Clermont and State of Ohio, have invented a Tire-Heating Furnace, of which the following is a specification:

The object of my invention is to conveniently, evenly, and rapidly heat wagon-tire, and analogous articles, by combining with an annular furnace a circular pipe or tuyere having discharge-nozzles, connecting with the interior of the bottom of said furnace, through which a blast of air is to be conducted to support combustion in the furnace.

The accompanying drawing forms a part of this specification, and shows, in Figure 1, a top view of a device embodying my invention. Fig. 2 shows a vertical transverse section of the same, in which—

A represents the annular furnace. This furnace is made of iron, of any convenient size, and may be lined with brick, and is provided with a tight-fitting cover, suitably hinged to the furnace. B represents a circular tuyere. This tuyere has a receiving-nozzle, C, and several discharge-nozzles, *a a a*. These discharge-nozzles convey air from the tuyere to the fuel-chamber in the furnace. D represents ribs. These ribs are attached to the bottom of the furnace, equidistant apart, and are sufficiently

high to support the tire and leave sufficient space for fuel between the tire and bottom of the annular furnace. E represents a flue for carrying off the smoke. Any suitable blower may be attached to the receiving-nozzle C.

To operate this device, the fuel-chamber is filled with fuel, when the tire to be heated may be laid on the ribs D and upon each other in large quantities, and all evenly and rapidly heated.

I am aware that annular furnaces are used; but these have only a natural draft, which is not sufficient to secure the greatest advantages of time and fuel; hence I supply an artificial draft through the agency of the tuyere B and any suitable blower.

It is deemed not necessary to show the blower in the drawing, as a common device may be used for that purpose.

What I claim is—

The combination of the annular furnace A, having the hinged cover, ribs D, and smoke-flue E, with the circular tuyere B, having receiving-nozzle C and discharge-nozzles *a a a*, and any suitable blower, as and for the purposes set forth.

JOHN G. ROGERS.

Witnesses:

S. H. WHEELER,
I. O. WHEELER.