

M. BATTEL.
FURNACE FOR HEATING TIRES.

No. 23,653.

Patented Apr. 19, 1859.

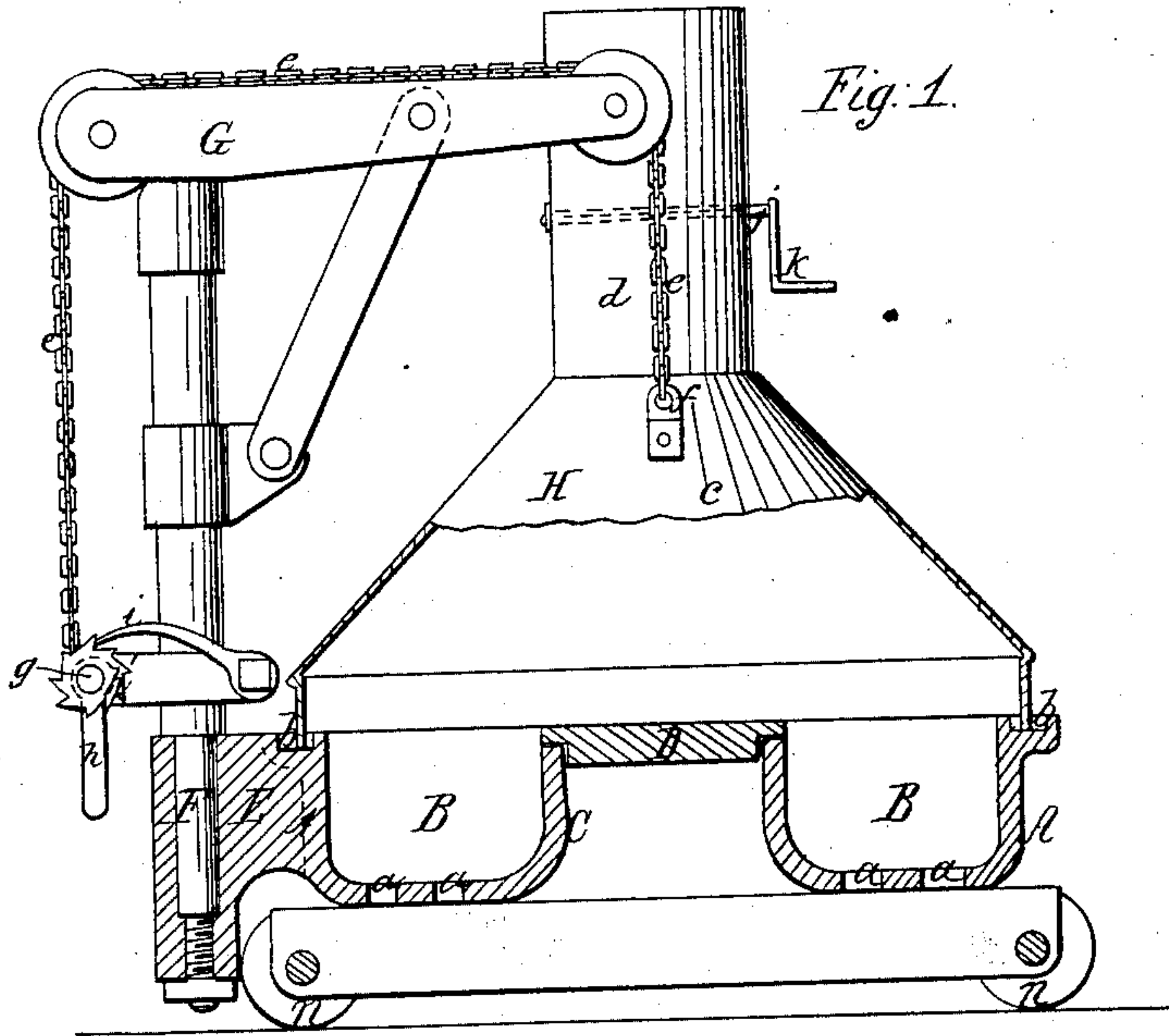


Fig. 2.

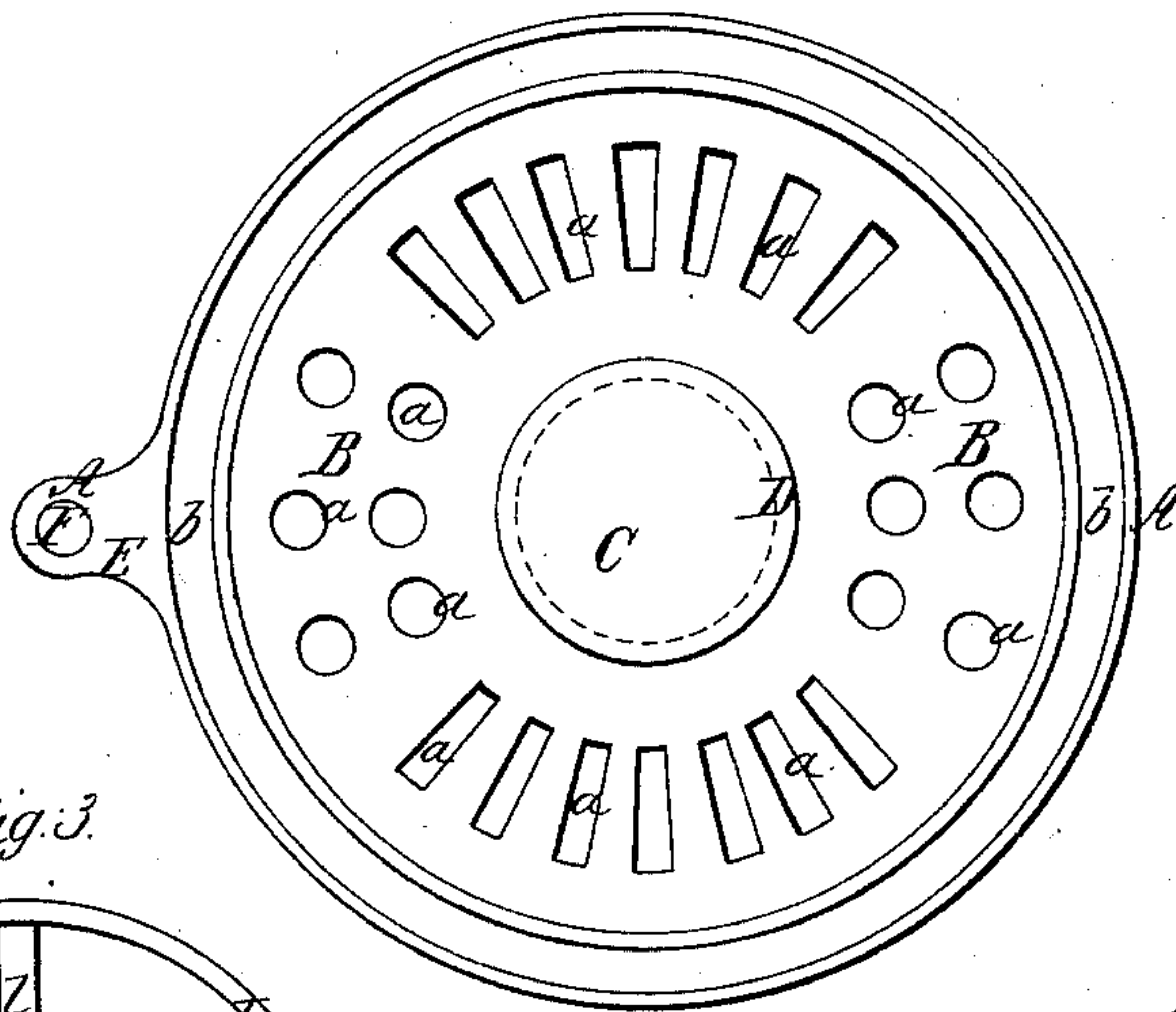
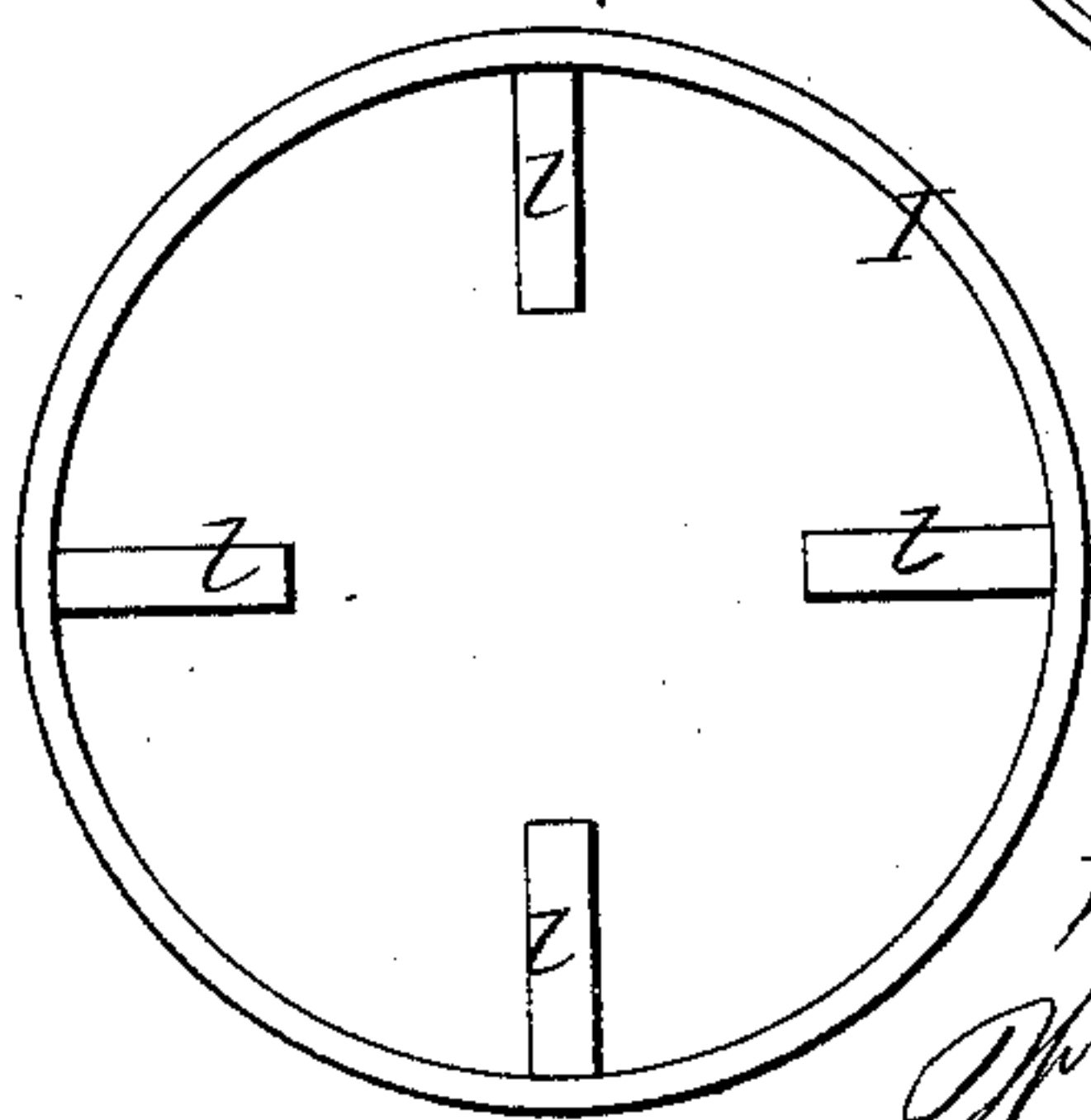
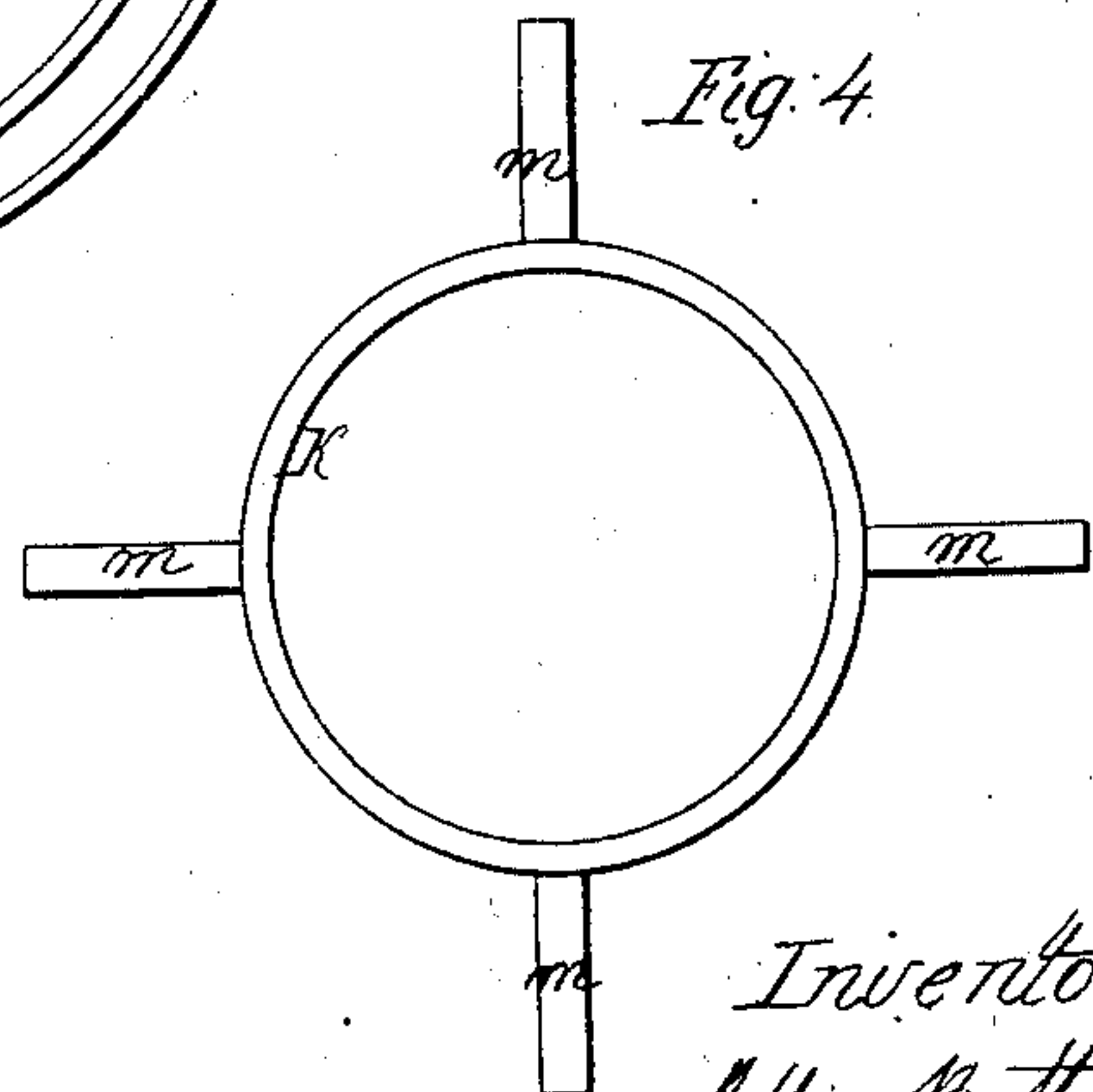


Fig. 3.



Witnesses:
W. Trach
W. Stauff

Fig. 4.



Inventor:
Mellen Battel

UNITED STATES PATENT OFFICE.

M. BATTEL, OF ALBANY, NEW YORK.

FURNACE FOR HEATING TIRES.

Specification of Letters Patent No. 23,653, dated April 19, 1859.

To all whom it may concern:

Be it known that I, MELLEN BATTEL, of the city and county of Albany and State of New York, have invented a new and Improved Furnace for Heating Tires; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a vertical section of my improved furnace. Fig. 2, is a plan or top view of the furnace, the top having been removed. Figs. 3 and 4 are plan views of reducing rings which I employ.

Similar letters of reference indicate corresponding parts in the several figures.

To enable others skilled in the art to fully understand and construct my invention, I will proceed to describe it.

The body A, of the furnace forms an annular space B, the bottom of which is perforated with holes and openings *a*, through which the air has access to the fuel which is placed into this space B, in order to raise a fire.

C, is a central tube, which is covered over by a cover D, and which serves to regulate the draft of the fire in the space B.

An extension E, is cast to the body of the furnace which forms the socket for a rod F, on which a crane G, rotates freely, and the upper edge of the body of the furnace is provided with a groove *b*, which forms the resting place for the top H, of the furnace. This top is of the usual form, being constructed of a hollow cone which ends into a smoke stack *d*, of such height that the necessary draft is obtained. The top H, is attached to the crane G, by means of chains *e*, which run over the rollers of the crane and which are attached to eyes *f*, which are riveted to the upper part of the cone *c*. The chains *e*, unite into one branch at their inner end, which winds up on a shaft *g*, which is operated by means of a crank *h*, and which is provided with a ratchet wheel *h*¹, and pawl *i*, so as to be able to suspend the top H, of the furnace at any desired height from the furnace.

The smoke stack *d*, is provided with a damper *j*, which is operated by means of a crank *k*, and which serves to regulate the draft in the usual manner.

I, and K, are rings represented in Figs. 3 and 4, and the ring I, is provided with a number of arms *l*, which leave space enough between their inner ends so that this ring fits over the central tube C, in the furnace. This ring is used if smaller tire is to be heated, which is placed into the inside of the ring I, on the arms *l*, and the fire is raised in the inside of this ring only. The ring K, has arms *m*, which extend far enough so as to reach the outer side of the annular space B, if the ring is placed over the central tube C, of the furnace, and this ring serves when larger tire is to be heated. By placing these rings into the furnace the annular space B, is diminished and consequently less fuel is required to fill the same, and at the same time the draft from below is not obstructed, as the arms *l*, and *m*, respectively cover only a small amount of space.

The body of the furnace may be constructed of cast iron and in this case it may be placed on wheels *n*, and made movable, as represented in the drawing, or it may be constructed of brick and without any draft from below, and thus made stationary, but in either case the movable top H, as well as the rings I, and K, may be applied with equal advantage.

The crane G, which serves to move the top H may be employed at the same time to introduce heavy tire into the fire and take them out again, and it will only be necessary in this case to remove the top from the furnace, unhook the chains *e*, from the eyes *f*, and attach them to the tire which it is intended to introduce into the fire, or to take out of the fire.

Having thus described my invention, I claim as an improved article of manufacture,

A furnace for heating tire, composed of an annular body A, fire-space B, central tube C, with cover or damper D therein to regulate the draft, extension E, rod F, crane G, top H, and otherwise constructed as herein shown and described for the purpose specified.

MELLEN BATTEL.

Witnesses:

WM. TUSCHL;
W. HAUFF.