

No. 791,926.

PATENTED JUNE 6, 1905.

C. MILLER.
HEATING STOVE.

APPLICATION FILED AUG. 10, 1904.

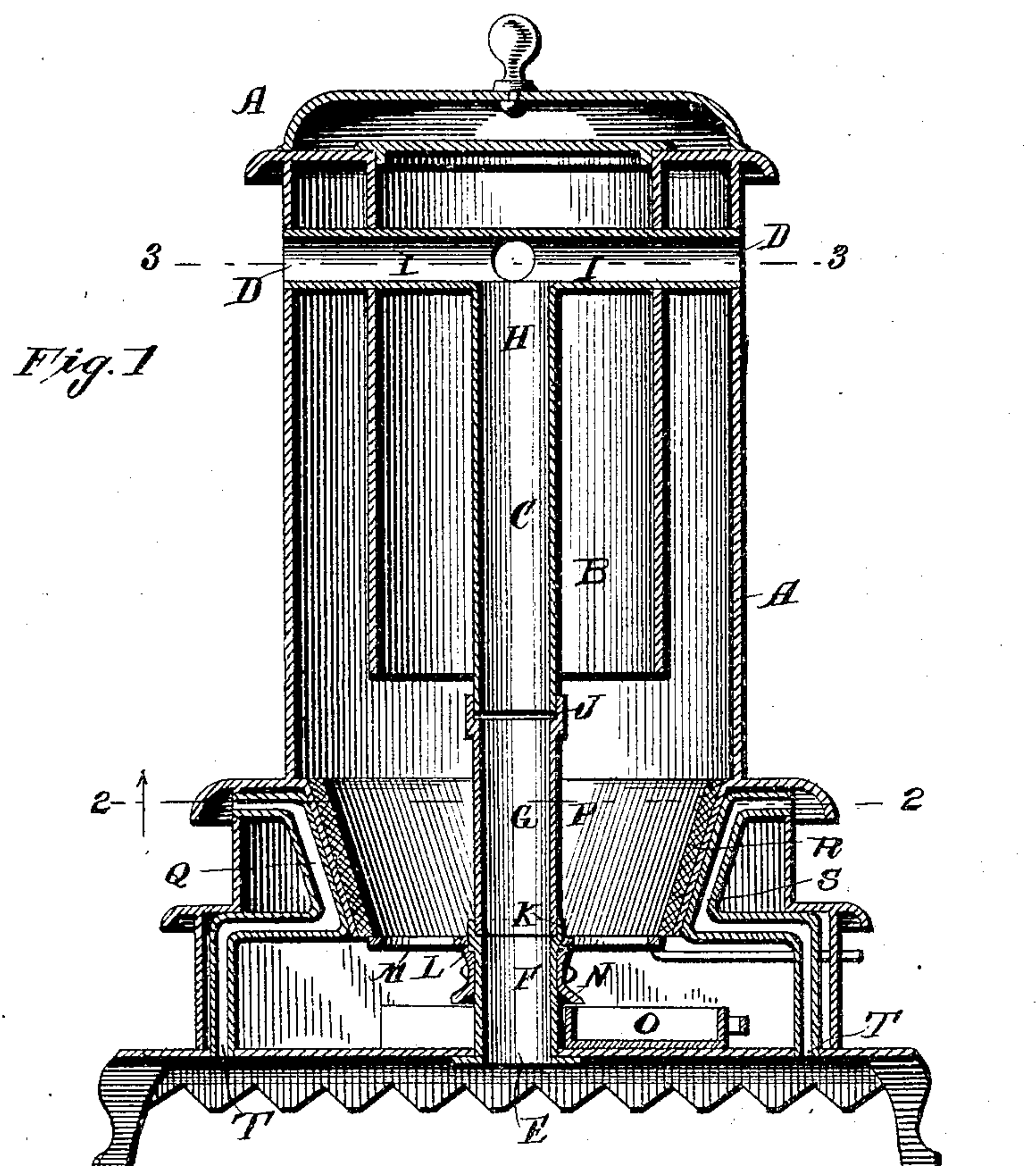


Fig. 1

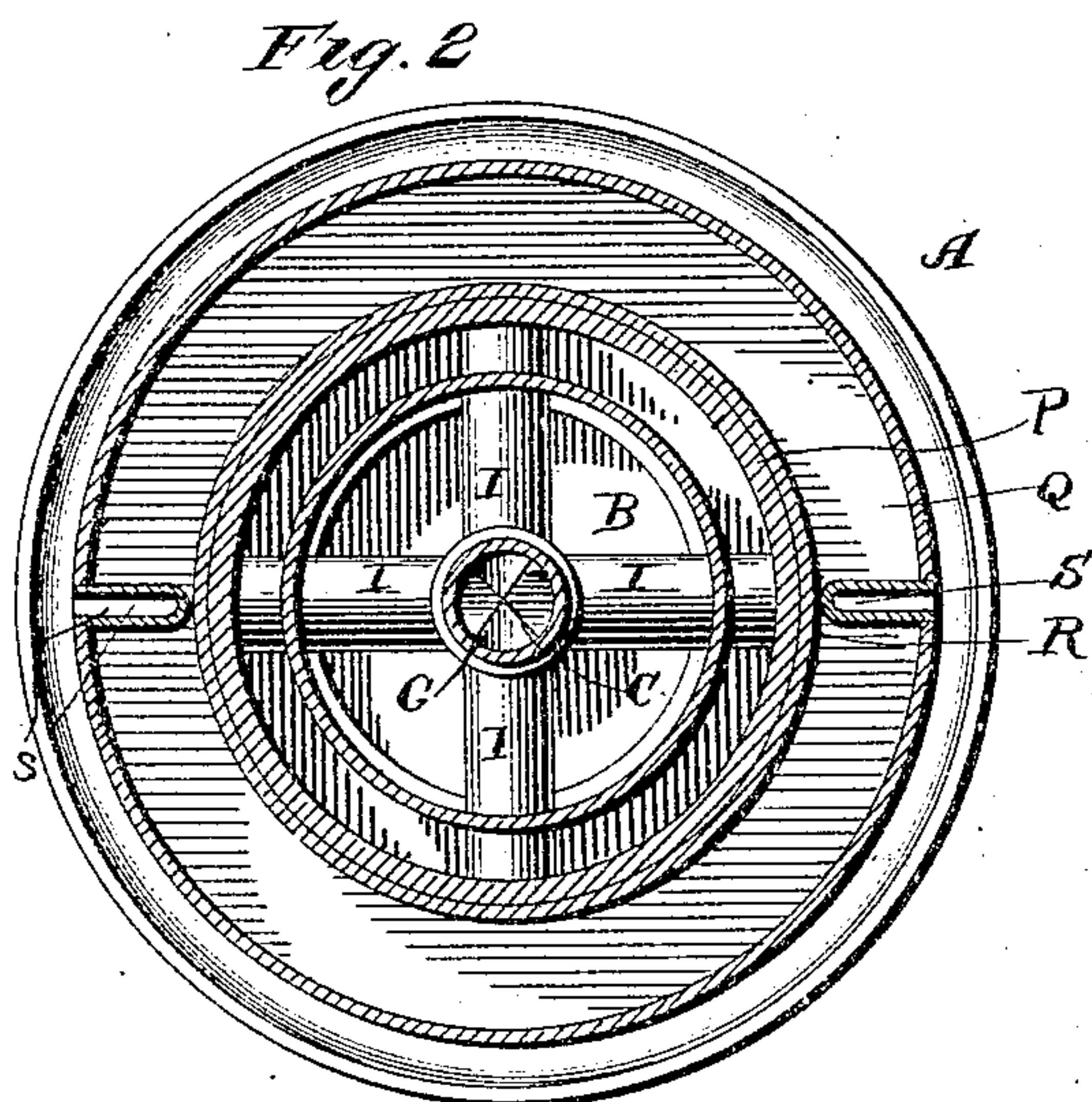


Fig. 2

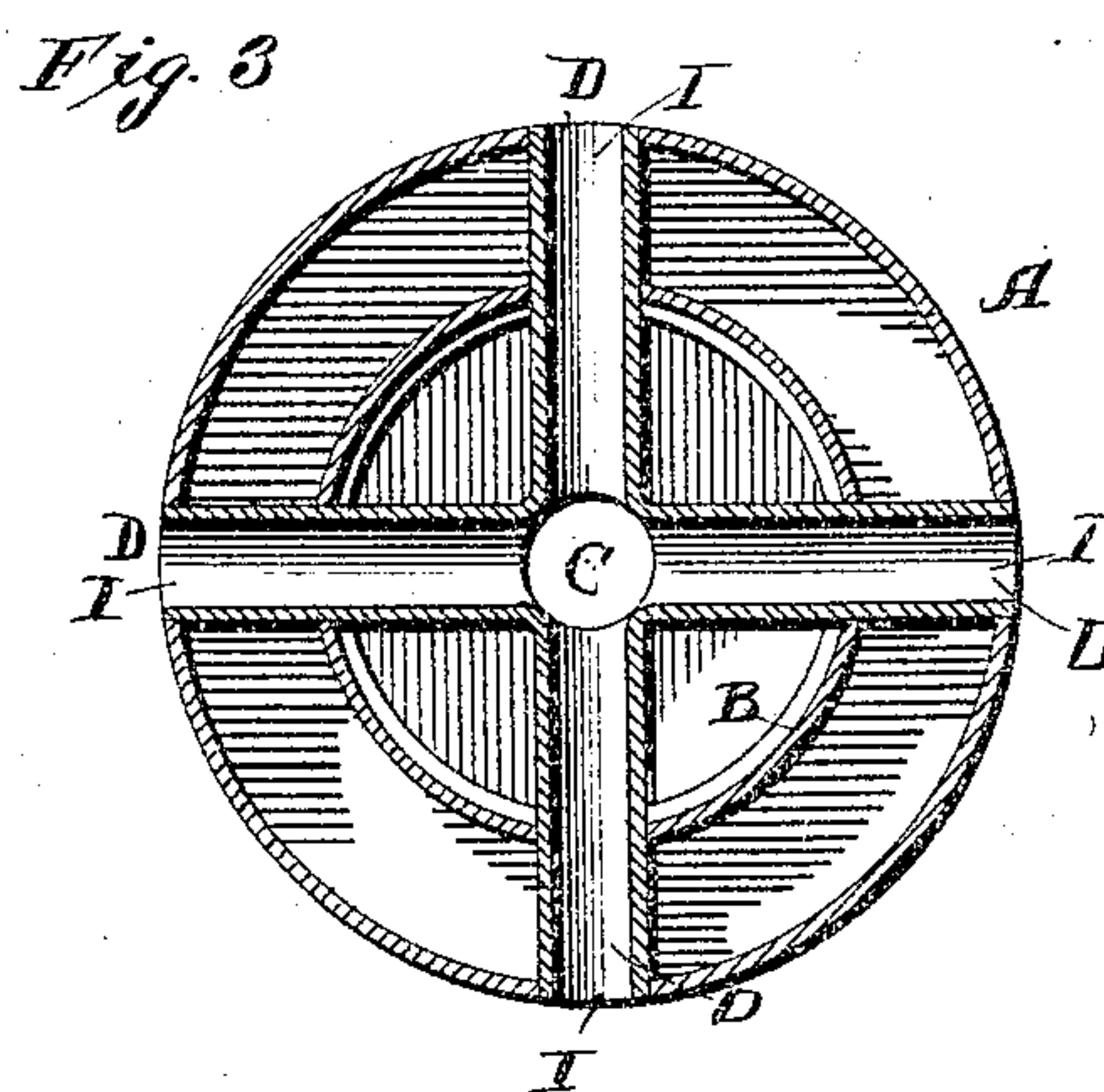


Fig. 3

WITNESSES:
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CHARLES MILLER, OF SCRANTON, PENNSYLVANIA.

HEATING-STOVE.

SPECIFICATION forming part of Letters Patent No. 791,926, dated June 6, 1905.

Application filed August 10, 1904. Serial No. 220,205.

To all whom it may concern:

Be it known that I, CHARLES MILLER, a citizen of the United States, and a resident of Scranton, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Heating-Stoves, of which the following is a specification.

The invention relates to heating-stoves, and has for its object to provide increased heating surface thereto by simple, novel, and improved means.

The invention consists of the special construction, arrangement, and combination of parts, which will hereinafter be fully described, shown by the accompanying drawings, and pointed out in the claim.

In the drawings, Figure 1 is a central vertical sectional view through an ordinary coal-stove having my invention applied thereto. Fig. 2 is a horizontal sectional view taken on line 2 2 of Fig. 1 and looking in direction indicated by the arrow, and Fig. 3 is a similar sectional view taken on line 3 3 of Fig. 1.

In the practice of my invention I may employ an ordinary heating-stove A, preferably of the type having the common magazine fuel-feed cylinder B.

C denotes an air passage-way extending upwardly with the body of the stove, with laterally-disposed upper outlets D through the stove's exterior side wall and an inlet E through its base, substantially as shown in Fig. 1. The air passage-ways C D are constructed in three sections F G H. The upper end of the section H is provided with a plurality of laterally-disposed branches I.

The upper end of the section G is enlarged, forming a socket J, into which the lower end of the section H is adapted to enter, and the upper end of the section F has a similar socket K, into which the lower end of the section G is adapted to enter.

On the outside of the section F and just below its upper end I provide an annular shoulder L, providing support for a suitable grate M.

The shoulder L may consist of a simple collar secured by bolts or other means, and it is designed that the lower edge of the collar or shoulder L be made flaring, forming an overhanging ledge N, adapted to guide the ashes

into any suitable ash-pan O. The inner or rear end of the ash-pan is recessed, adapted to fit around and extend beyond the air-tube, as shown in Fig. 1.

I have not shown an ash-door to the stove in my drawings, but obviously the same is to be provided and located, as will be understood.

In further carrying out my invention the fire-pot P is provided with an annular exterior air-space Q, which may be formed by integral side walls of the fire-pot or of a hollow annular jacket R.

An air passage-way from the upper end of the space Q is made by means of a plurality of horizontally-disposed pipes S, providing hot-air outlets, and a plurality of cold-air-inlet passage-ways T are made, communicating with the lower end of the space Q.

The cold-air inlets T are disposed extending horizontally from the lower end of the annular jacket or air-space Q, and thence downwardly through the base of the stove, substantially as shown in Fig. 1.

It will be understood that all the air passage-ways above described may be cast or otherwise constructed. The construction of my invention will be understood from the above description.

Now it is apparent that a heating-stove provided with the additional heating-surface as invented by me will not only radiate to improved degree, but by minimum use of fuel. By constructing the air passage-way C into sections with slip-joints a burned-out one thereof may be readily replaced by simple vertical adjustment of the next-above section.

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

The combination in a heating-stove of a fire-chamber, a central air-tube, a grate, an ash-pan recessed to receive the air-tube, and a collar on the air-tube, said collar being downwardly flaring to overhang the ash-pan and arranged to support said grate.

CHAS. MILLER.

Witnesses:

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S. D. ROBERTS.