

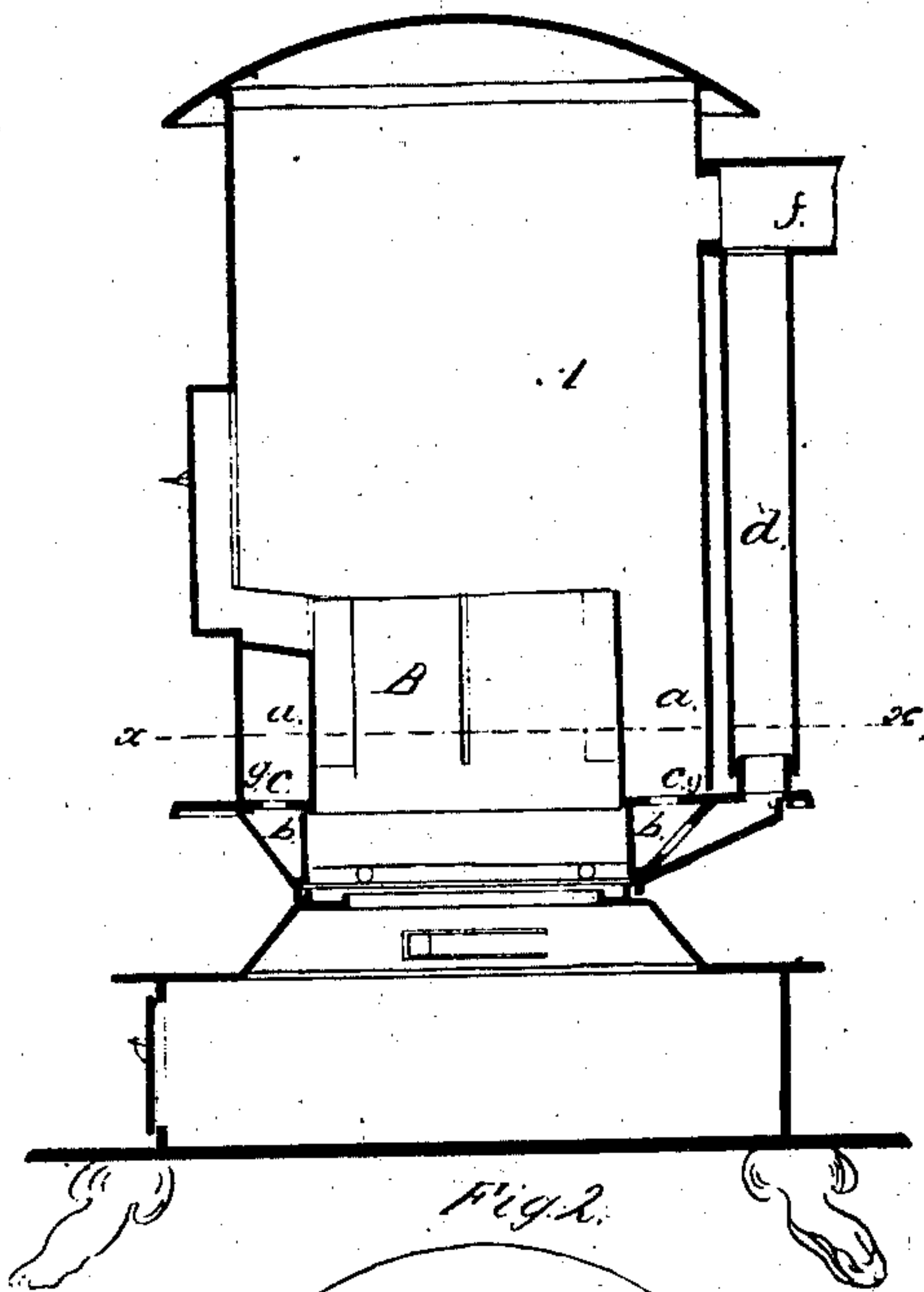
*D. B. Cox.*

*Heating Stove.*

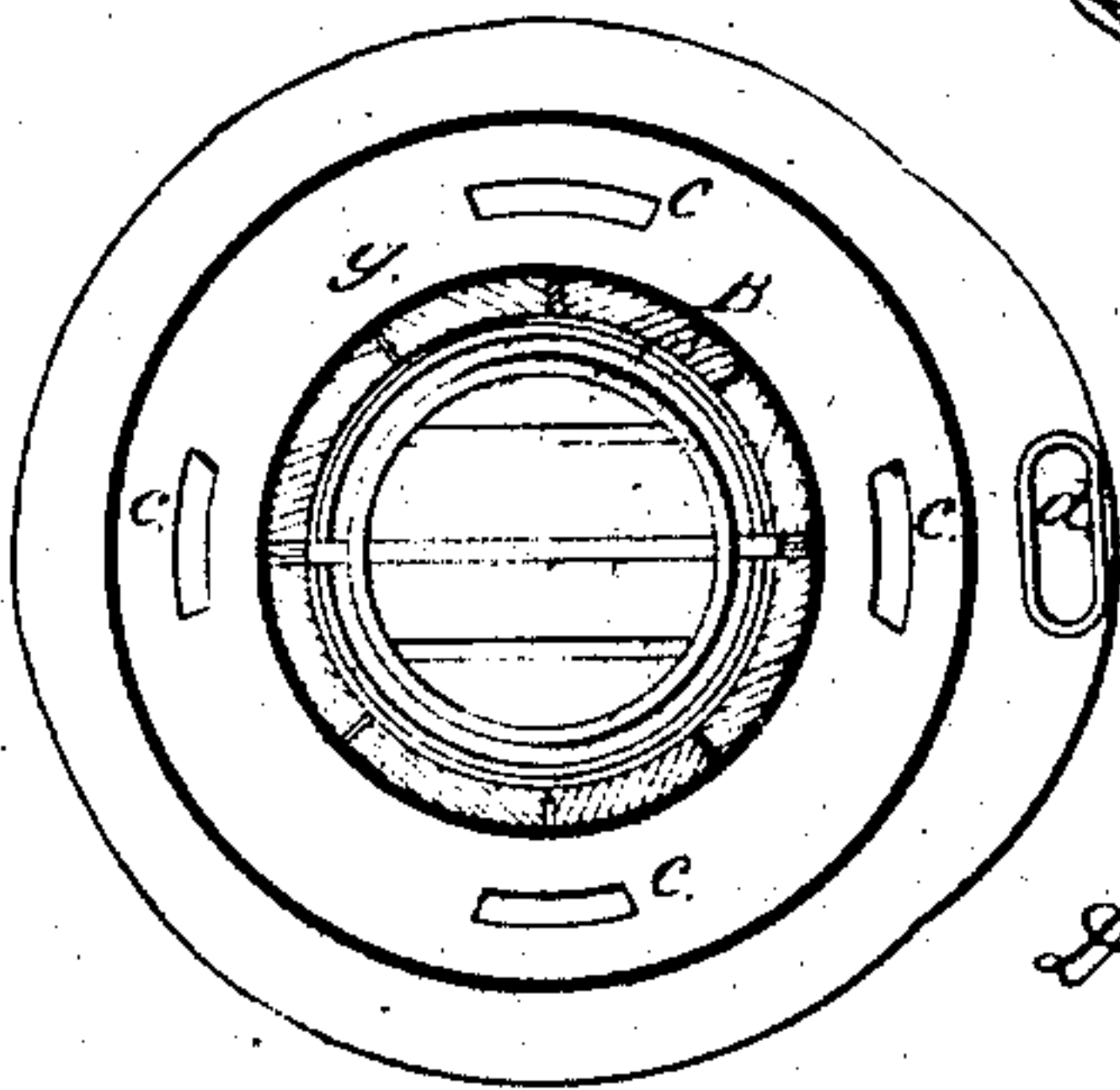
*N<sup>o</sup> 80,532.*

*Patented Aug. 4, 1868.*

*Fig. 1.*



*Fig. 2.*



*Witnesses.*  
*Wm H Brown*  
*A S Van Vuren*

*Inventor*  
*David B Cox*  
*By his atty.*  
*J S Brown.*

# United States Patent Office.

DAVID B. COX, OF TROY, NEW YORK.

*Letters Patent No. 80,532, dated August 4, 1868.*

## IMPROVEMENT IN COAL-STOVES.

*The Schedule, referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, DAVID B. COX, of Troy, in the county of Rensselaer, and State of New York, have invented an Improved Stove; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification—

Figure 1 being a central vertical section, from front to back, of a stove constructed with my improvement.

Figure 2, a horizontal section thereof, in a plane indicated by the line *x x*, fig. 1.

Like letters designate corresponding parts in both figures.

My improvement consists in forming an annular flue around the base of the fire-pot, through which a portion of the draught may pass on its way to the smoke-pipe, there being apertures opening down through a plate above the said flue from the fire-chamber of the stove, or from a space around the upper part of the fire-pot, communicating with the fire-chamber.

Let A represent the body of a stove, and B the fire-pot therein.

Around the upper part of the fire-pot is a space, *a*, communicating with the fire-chamber of the stove. This space extends only a part of the depth of the fire-pot, (as represented,) and, at the bottom, a partition, *g*, separates it from a flue, *b*, of an annular shape, around the lower part of the fire-pot. Through this partition a suitable number of apertures, *c c*, open, to allow the draught to pass down around the fire-pot into the annular flue *b*. In this flue the draught circulates horizontally around the fire-pot, and thence passes out at the back of the stove into a pipe or flue, *d*, which conducts it to the smoke-pipe *f*. In this passage around the fire-pot the draught becomes highly heated, and causes the outer surface of the stove, around the flue, to radiate heat near the floor of the room.

The draught may be suitably regulated by dampers, so as to cause more or less to pass through the flue *b*, or all of it to pass directly out at the smoke-flue *f*, in the usual way.

The construction of the flue *b* may vary in respect to size, to its extent around the periphery of the fire-pot, and the number and position of the apertures leading into it.

What I claim as my invention, and desire to secure by Letters Patent, is—

The annular horizontally-circulating flue *b* around the base of the fire-pot, and separated from the chamber above by a perforated partition, *g*, substantially as and for the purpose herein specified.

The above specification of my improved stove signed by me, this 26th day of March, 1868.

DAVID B. COX.

Witnesses:

J. S. BROWN,

EDM. F. BROWN.