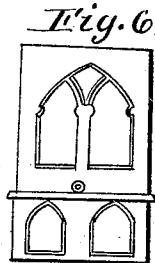
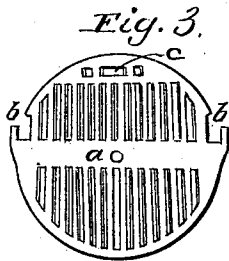
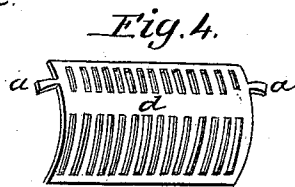
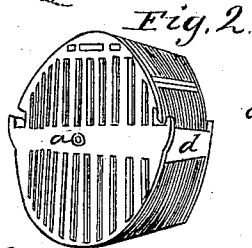
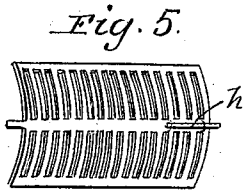
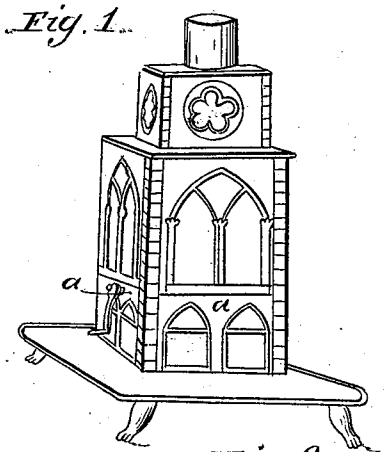


E. EATON.

Stove.

No. 576.

Patented Jan'y 20, 1838.



Witnesses:

*Geo. Hunter*  
*W. Thomas*

*Inventor*  
*E. Eaton*

# UNITED STATES PATENT OFFICE.

EBEN EATON, OF TROY, NEW YORK.

## FURNACE OF STOVES FOR BURNING ANTHRACITE.

Specification of Letters Patent No. 576, dated January 20, 1838.

*To all whom it may concern:*

Be it known that I, EBEN EATON, of Troy, in the county of Rensselaer and State of New York, have invented a new and useful  
5 Improvement in Furnaces of Stoves for Burning Anthracite and other Coals; and I do hereby declare that the following is a full and exact description of the construction and operation of said stove, reference  
10 being had to the drawings which accompany and make part of this specification.

The form in which I usually make this stove is that of a paralleliped as shown in the drawing No. 1. The bottom projects  
15 beyond the sides and thus forms a hearth surrounding the stove. In the bottom directly under the furnace there is a square opening through which the ashes may fall into a drawer that slides in grooves under  
20 the hearth. On each side of the stove there is a door (*a* No. 1) consisting in general of a metallic openwork frame filled in with laminated mica resting upon the hearth and extending upwards about one third part of  
25 the stove. Above these doors on three of the sides there are windows and on the remaining side a door consisting generally of a metallic openwork frame filled in with laminated mica and extending downwards  
30 from the top of the stove nearly to the doors above described. The furnace contained within this stove and shown in the drawing No. 2 is made of cast iron or other metal in five separate pieces which when properly  
35 combined form a hollow cylinder intended to revolve on its axis. Two of the pieces form the ends of the furnace and both being alike I proceed to describe them. It consists of a circular grate No. 3 having a hollow  
40 pivot (*a*) projecting from its center upon which the furnace is suspended, having also on its rim or circumference three notches or openings (*b, b, c,*) each fitted to receive a small arm which will be hereafter described.  
45 There are two other pieces of this furnace that are similar to each other and I will therefore describe but one of them. It consists of one segment of a circle divided into

the parts as seen in the drawing No. 4 having two small arms (*a, a*) projecting from  
55 it which are made to fit into notches or openings in the ends (*b, b,* No. 3). It has also a bar (*d*) extending across it between the arms (*a, a,*) having other bars intersecting it. The remaining part of the furnace is the  
60 top No. 5. It consists of one segment of a circle having on one end a small arm made to fit into one of the notches or openings in the end (*c,* No. 3) and having on its upper surface a bolt (*h*) made to slip into a similar  
65 notch or opening on the other end of the furnace. The top need not necessarily be used only when the furnace is revolved on its axis. The furnace above described is suspended in the stove by its pivots which  
70 are inserted into boxes on the sides of the stove fitted to receive them as seen at No. 6. There is also a flange extending around the interior of the stove and cast on its sides projecting inward so as nearly to touch the  
75 furnace on all its sides at the bars (*d* No. 4). The furnace being thus suspended may be revolved by inserting a key through the side of the stove into one of the hollow pivots, and the ignited fuel may be seen  
80 through all its sides.

In the foregoing description I have necessarily included several things of which I do not claim to be the inventor. I therefore  
85 now proceed to state specifically in what my improvements consist and they are as follows.

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

The furnace constructed so that the  
85 ignited fuel may be seen through all its sides and suspended so as to revolve on its axis constructed substantially in the form above described or with such variations only as will not alter its character, or mode of  
90 operation.

EBEN EATON.

Witnesses:

JNO. HUNTER,  
H. THOMAS.