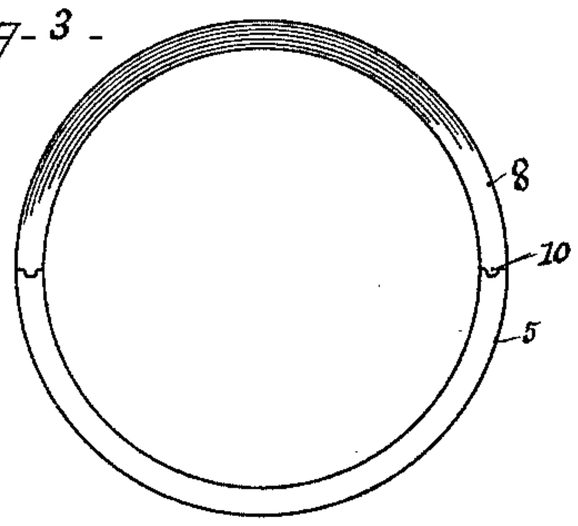
(No Model.)

S. BOAL.

BASE BURNER STOVE.

No. 462,617. Patented Nov. 3, 1891.

Fig. 3.



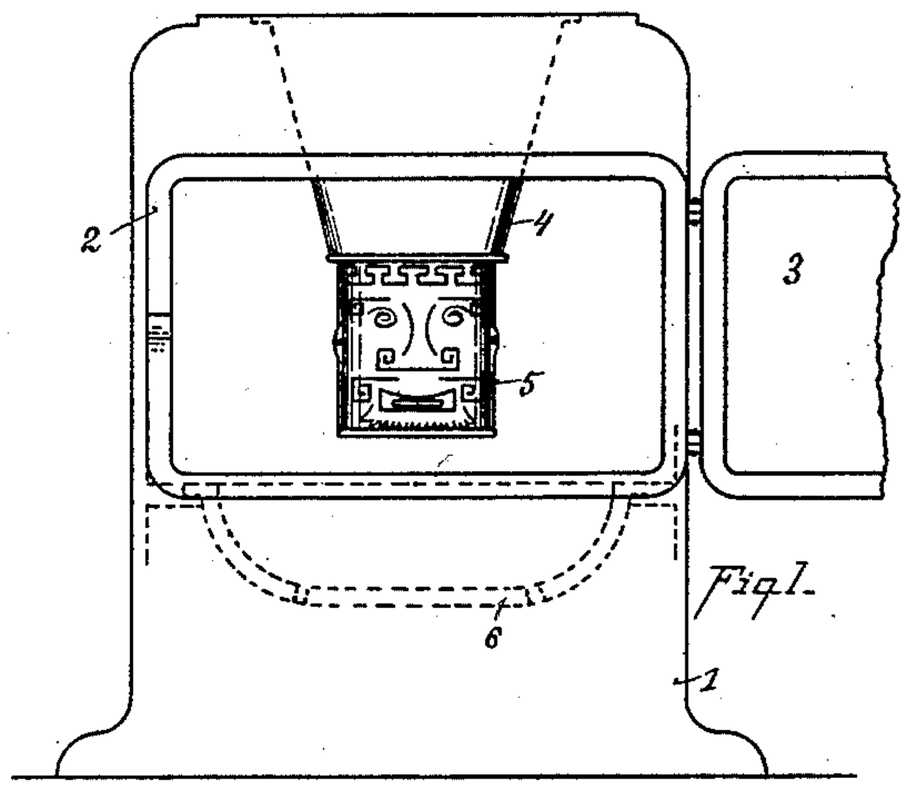


Fig 1.

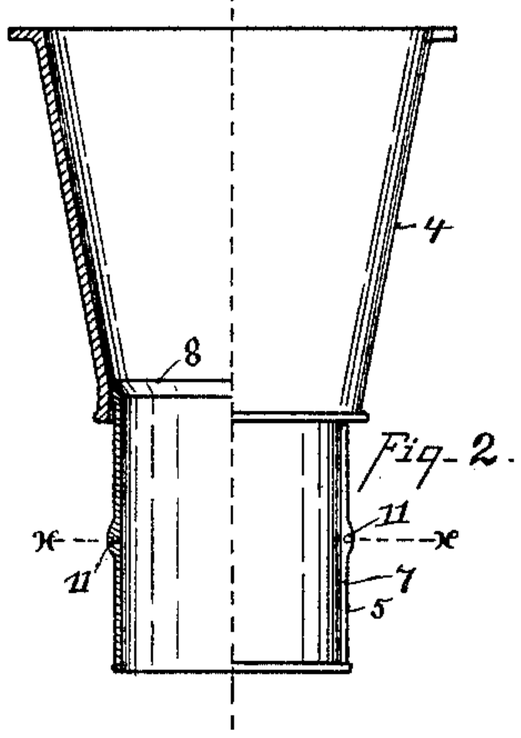


Fig. 2.

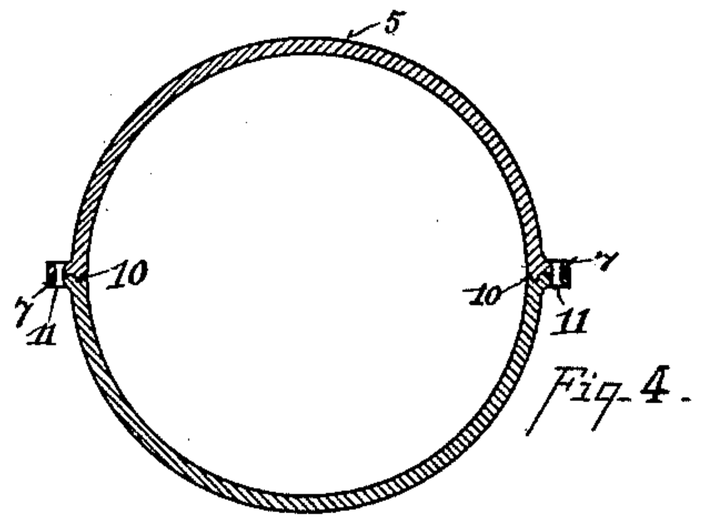


Fig. 4.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

STANHOPE BOAL, OF PIQUA, OHIO.

BASE-BURNER STOVE.

SPECIFICATION forming part of Letters Patent No. 462,617, dated November 3, 1891.

Application filed April 18, 1891. Serial No. 389,472. (No model.)

To all whom it may concern:

Be it known that I, STANHOPE BOAL, a citizen of the United States, and a resident of Piqua, in the county of Miami and State of Ohio, have invented certain new and useful Improvements in Base-Burner Stoves, of which the following is a specification.

This invention relates to telescopic and sectional magazines for that class of stoves known as "hard-coal base-burners," the object being to so construct and arrange the telescopic sections of the magazine that the lower section can be raised without difficulty to allow the fire basket or grate to be removed through the stove-doors without the necessity of taking the stove apart, and also to construct the telescopic section in such a manner that it can be ornamented, all of which will be fully set forth in the description of the accompanying drawings, making a part of this specification, in which—

Figure 1 is a front elevation of my improvement applied to a stove in position for use. Fig. 2 is an elevation, partly in section, of my improved magazine. Fig. 3 is a top plan view of the lower portion of the same, and Fig. 4 is a section on line *x x*, Fig. 2.

1 represents the frame of an ordinary low-down base-burner stove; 2, the frame of the door-opening; 3, the door hinged thereto. 4 shows the fixed portion of the magazine, and 5 shows the telescope section of the magazine.

6 represents the grate or fire basket. The stationary portion of the magazine 4 is attached upon the inside of the stove in the ordinary manner, with the usual opening at the top of the stove for the admission of fuel. The adjustable section 5 of the magazine depends in front of the door-opening and sufficiently low to prevent a too rapid discharge of the coal into the fire-pot. This section is made smaller than the lower end of the stationary part. It is provided with ribs 7 on either side, which slide in grooves formed in the lower portion of the stationary section, so that said adjustable section 5 may be raised up. It is prevented from dropping through by the rim 8, or lugs may be formed thereon for that purpose.

When it is desired to remove or renew the fire pot or grate 6, the section 5 is slid up bodily into the section 4, which leaves sufficient space to allow the fire pot or grate to be readily taken out and a new one put in. This is a very important feature, and it saves taking the stove apart whenever the fire pot or grate needs renewing or adjusting. In the construction of magazines they have hitherto been made of cylindrical form and of one piece. When so made, it is impossible to make the outer periphery other than a plane surface because of the inability to withdraw the same from a mold; but by making this section of two or more segments of a circle the outer periphery of said segments can be ornamented by configurations of any kind, either in relief or otherwise, and the sections readily drawn from the mold.

The stove-doors are usually filled with isinglass or mica for light and to expose the action of the incandescence. It is desirable to render the illuminated interior attractive to the eye by ornamentations and configurations upon the outer periphery of the lower portion of the magazine, and this I accomplish by making it in sections and uniting the sections together, thus allowing the patterns containing the configurations to be withdrawn from the mold, leaving the same in perfect condition for casting. The preferred form of uniting the sections is by tongue-and-groove joint 10 and rivets 11, as this keeps the magazine perfectly gas-tight, which would otherwise cause it to warp.

In Fig. 1 I have shown the outline of the stove without showing the ornamentations and method of putting in mica above and below the door, which is usual in this class of stoves.

Having described my invention, what I claim is—

A magazine for a base-burner stove, composed of the upper stationary section 4 and the lower vertically-movable section 5, formed of two or more pieces connected by tongue-and-groove joints 10 and by rivets 11, passed through vertical ribs 7, that are formed on the outside of said movable section, and which ribs engage corresponding vertical grooves in the interior of the stationary section, substantially as shown and described.

In testimony whereof I have hereunto set my hand.

STANHOPE BOAL.

Witnesses.
G. A. BROOKS,
C. WINKELMANN.