

(No Model.)

C. A. C. KORETKE.
HEATING STOVE.

No. 490,478.

Patented Jan. 24, 1893.

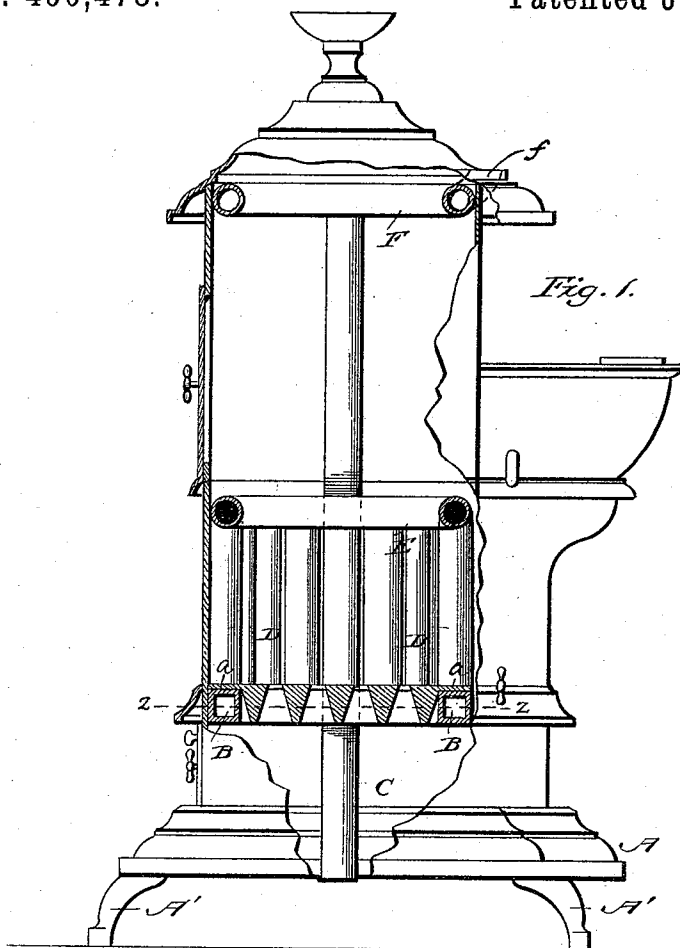
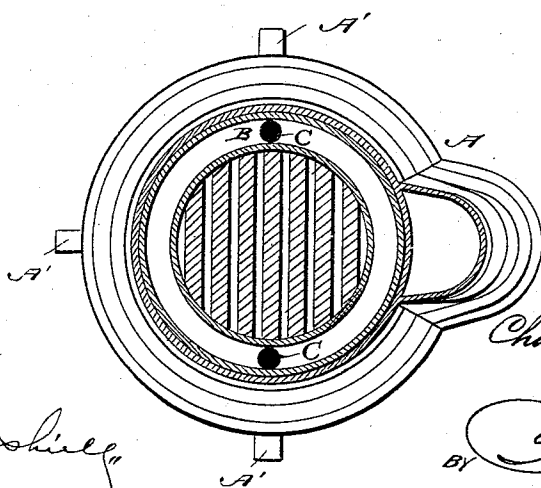


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES ADAM CHRISTIAN KORETKE, OF BELVIDERE, ILLINOIS.

HEATING-STOVE.

SPECIFICATION forming part of Letters Patent No. 490,478, dated January 24, 1893.

Application filed March 8, 1892. Serial No. 424,159. (No model.)

To all whom it may concern:

Be it known that I, CHARLES ADAM CHRISTIAN KORETKE, a citizen of the United States of America, residing at Belvidere, in the county of Boone and State of Illinois, have invented certain new and useful Improvements in Heating-Stoves, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in heating stoves of that class in which hot air flues or pipes are provided to increase the heating capacity of the stove, and it has for its objects among others to provide a stove of this character in which the heating capacity will be greatly increased without materially adding to the cost of the stove. I form the fire-pot practically all of pipes or flues, the bottom being an annular flue, the top a similar pipe or flue and the side walls being vertical flues connecting and communicating with the said top and bottom. An annular flue is also provided near the top of the stove and with this upper flue communication is established from the fire pot flues.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be specifically defined by the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification and in which

Figure 1 is a central vertical section through a stove provided with my improvements. Fig. 2 is a horizontal section on the line *zz* of Fig. 1, looking downward.

Like letters of reference indicate like parts in both views.

Referring now to the details of the drawings by letter, A designates the base of the stove and A' the legs. Above the ash pit and ash door is the surrounding flue or pipe B rectangular in cross section and forming the bottom of the fire-pot.

Care air inlet pipes passing upward through the bottom of the stove and communicating with the flue B. The ring B forms the support for the grate and the vertical walls of the fire-pot are formed by a plurality of vertical flues D. The vertical flues may all communicate with the ring B and with the surrounding flue or ring E arranged about midway the height of the stove and which forms the upper part of the fire-pot. These flues being arranged upon all sides of the fire-pot the air will be quickly heated and from the upper flue or ring E it is conducted to the annular flue or ring F at the top of the cylinder and from thence out into the room through a suitable outlet or outlets, as seen at *f* in Fig. 1. By this construction and arrangement of parts the stove as well as all the flues from the bottom of the ash pit will be readily heated and this without additional coal. Soft or hard coal or other fuel may be employed.

The outer portion of the grate has an outwardly-extending flange *a* as seen in Fig. 1 which rests upon the tube B which is made rectangular in cross section for this purpose.

What I claim as new is;—

The combination with the lower surrounding tube B rectangular in cross section, of the grate having outwardly-extending flange *a* resting upon said tube, the surrounding flue E about midway of the height of the stove, the vertical flues D connecting the flues B and E and forming the sides of the fire-pot, the upper surrounding flue F, the side flues connecting the same with the flue E, and the air inlet flues C passed up through the bottom of the stove and communicating with the flue B, all substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES ADAM CHRISTIAN KORETKE.

Witnesses:

WM. H. DAVIS,
J. G. MEYER.