

W. TINSLEY.
Fire-Boxes for Cooking-Stoves.

No. 148,860.

Patented March 24, 1874.

Fig. 1.

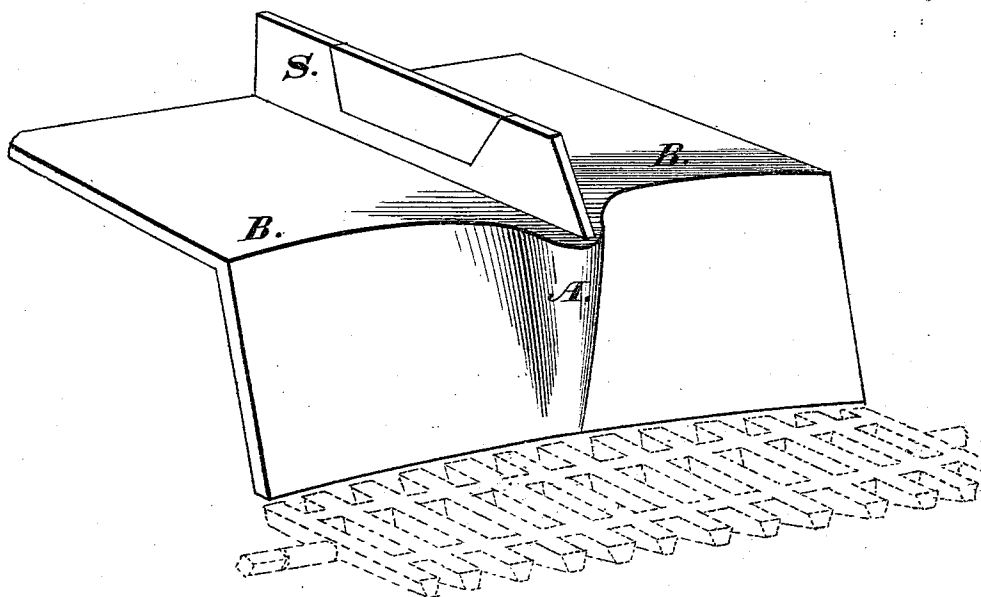
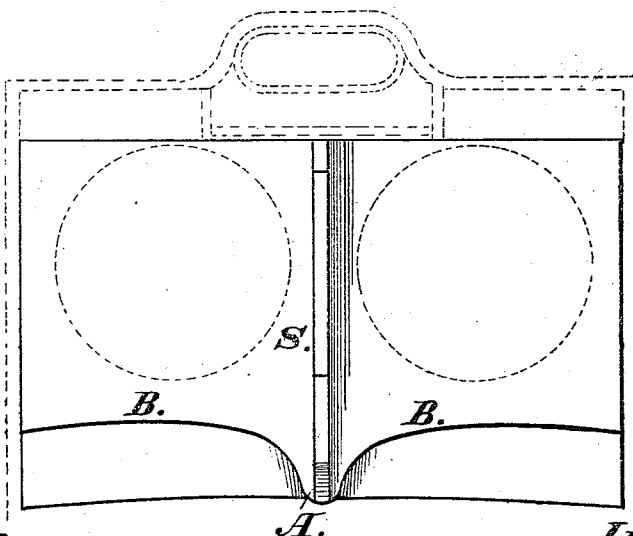


Fig. 2.



Witnesses,

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Inventor,

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UNITED STATES PATENT OFFICE.

WILLIAM TINSLEY, OF SYRACUSE, NEW YORK.

IMPROVEMENT IN FIRE-BOXES FOR COOKING-STOVES.

Specification forming part of Letters Patent No. **148,860**, dated March 24, 1874; application filed May 14, 1873.

To all whom it may concern :

Be it known that I, WILLIAM TINSLEY, of Syracuse, New York, have invented an Improved Fire-Box for Cooking-Stoves, of which the following is a specification:

The object of my invention is to prevent the focal concentration of the fire upon the center-piece and to spread the fire more evenly under the pots and over the oven. My device relates to the back of the fire-box only.

My fire-box forms a wavy line at the top. The end portions B B extend from the jambs about one-third of the whole toward the middle, and then break laterally into a saddle-shaped double curve in the center A. The ends B B slope backward from the grate, as is common; but the apex of A is vertical, or nearly, from the grate. The top line B A B opens and breaks gradually into a right line, or the ordinary curve at the bottom. A flue-slip, S, commences at about the point of A, and runs along the middle between the oven and top of the stove to the damper.

I cannot specify the exact form of the side portions of the top line; or the angle of declension; neither the quantity of projection of the middle portion A, as the intention is not so much to make a stove as to adapt it to other stoves, which may differ and require a modification.

The face of the fire-back may be iron or brick, or in part of both.

The operation is as follows: As fire will

naturally seek the most advanced outlet, being drawn by the smoke-pipe and chimney, the fire in my box is shed off by my vertical center A into the more advanced and inclined sides B and B, where it resolves itself into two currents. The slip S now interposes between the two currents and keeps them apart until they reach the damper; or, when the damper is closed, into their respective side flues, thus spreading the heat equally over the whole stove, and protecting the top plates from warping.

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

1. A back plate, B A B, reclining backward at the sides B B, and projecting forward in the middle in a short saddle-shaped curve, A, which may be vertical, or nearly so, from the grate, the whole forming a wavy line at the top, which opens and breaks down to the form of the grate at the bottom.

2. A flue-slip, S, running between the top of the oven and the top of the stove, in combination with the back plate B A B, substantially in the manner and for the purpose described.

May 9, 1873.

WILLIAM TINSLEY.

In presence of—

C. W. SMITH,
CLINTON SMITH.