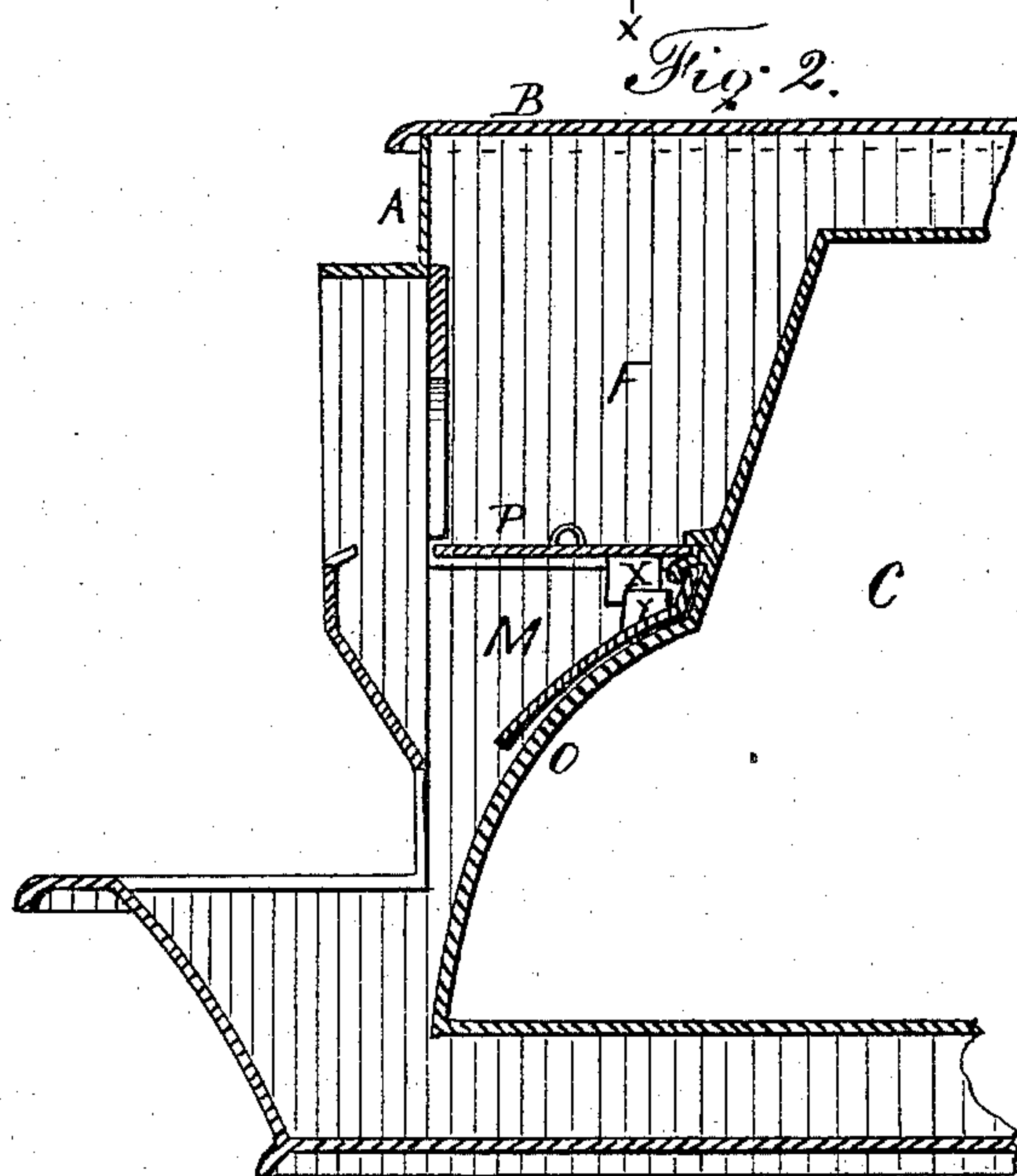
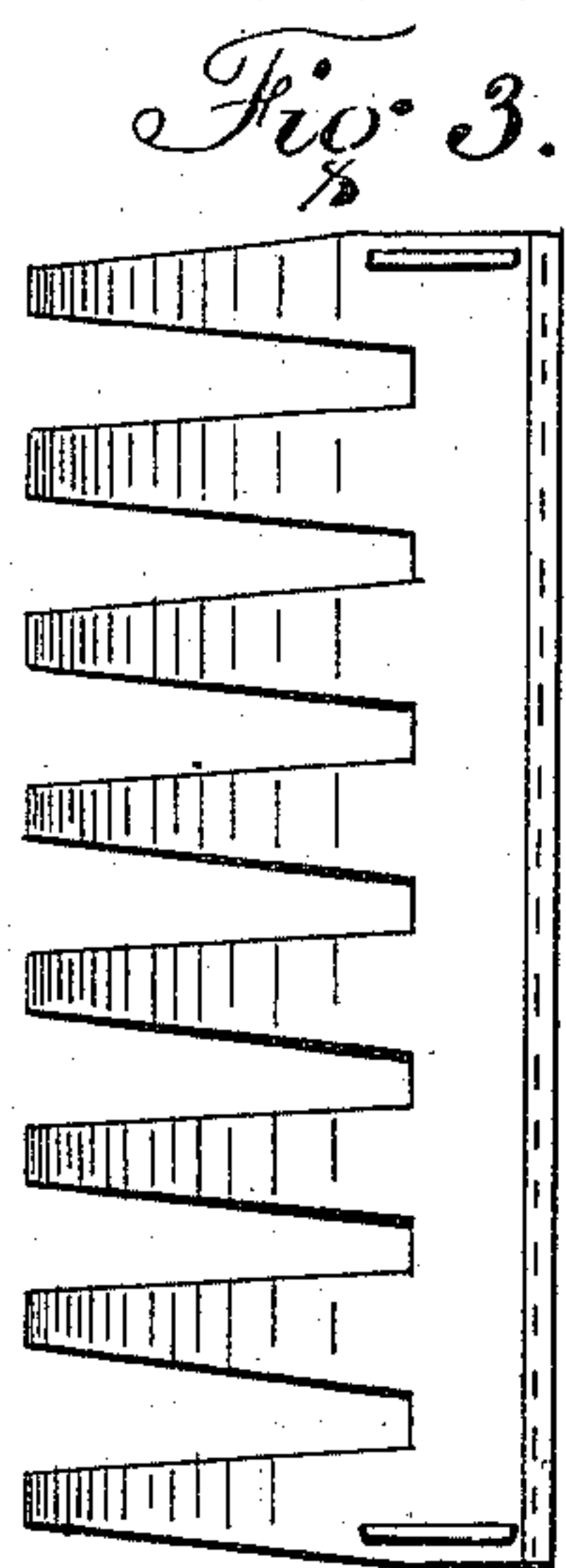
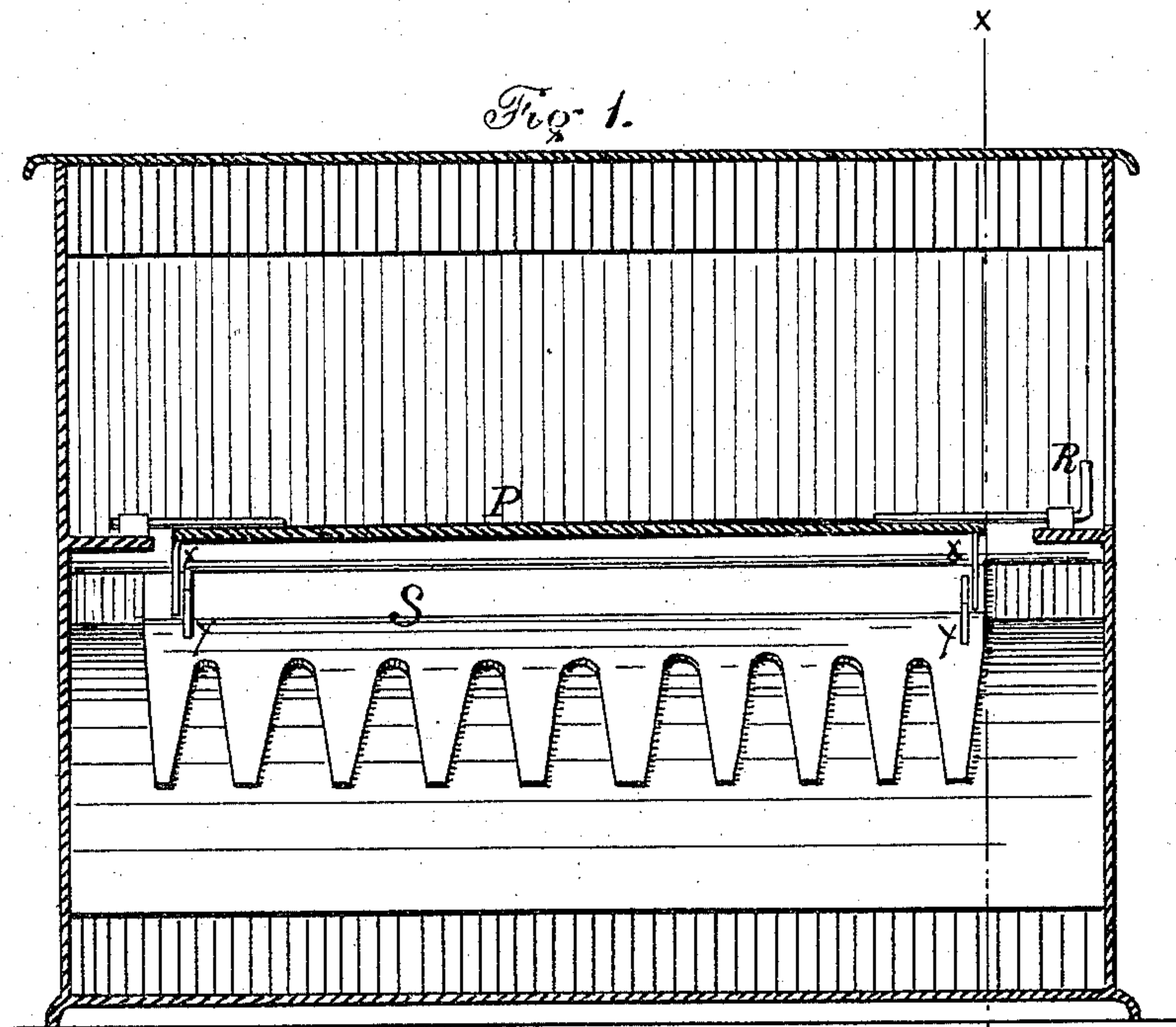


E. BUSSEY.
Cooking-Stoves.

No. 157,788.

Patented Dec. 15, 1874.



Witnesses
Benj C Tole
at Paris.

Inventor.
Ezek Bussey by
Chas S. Whitman.
attorney

UNITED STATES PATENT OFFICE.

ESEK BUSSEY, OF TROY, NEW YORK, ASSIGNOR TO HIMSELF AND CHARLES
A. MCLEOD, OF SAME PLACE.

IMPROVEMENT IN COOKING-STOVES.

Specification forming part of Letters Patent No. **157,788**, dated December 15, 1874; application filed
October 24, 1874.

To all whom it may concern:

Be it known that I, ESEK BUSSEY, of Troy, in the county of Rensselaer and State of New York, have invented certain Improvements in Stoves.

The following description, taken in connection with the accompanying plate of drawings hereinafter referred to, forms a full and exact specification, wherein are set forth the nature and principles of the invention, by which the same may be distinguished from others of a similar class, together with such parts thereof as are claimed as new, and are desired to be secured by Letters Patent of the United States.

My invention relates to that part of a diving-flue cooking-stove known as the grate.

In stoves heretofore in use much trouble has been caused by the accumulation of ashes under the grate and upon the curved oven-plate, whereby the grate was caused to warp and burn out.

The object of my invention is to remedy this serious defect; and to that end my invention consists in providing the grate with a plate having a series of curvilinear fingers, which are caused to reciprocate over the surface of the oven-plate and remove the ashes therefrom.

In the accompanying plate of drawings, in which corresponding parts are designated by similar letters, Figure 1 represents an ordinary diving-flue cooking-stove, the front plate of which has been removed in order to more clearly represent my invention. Fig. 2 is a section taken in the vertical plane at the point designated by the line *xx*, Fig. 1. Fig. 3 is a view of the top of the curvilinear oven-plate with my invention applied thereto.

Old and well-known parts of an ordinary diving-flue cooking-stove are designated as follows: A is the front plate; B, the top plate; C, the oven; F, the fire-box; M, the flue under the fire-box; O, the curvilinear oven-plate.

To a stove of this well-known construction I make the following additions: P designates the grate under the fire-box, to which reciprocating rectilinear motion may be imparted by the rod R. S designates a reciprocating plate, provided with a series of fingers of such curvilinear form as to exactly coincide with the front plate of the oven. The plate is so connected with the grate P by means of the lugs X on the bottom of the said grate, which engages with lugs Y, attached to the plate, that reciprocating rectilinear motion may be imparted thereto when the grate is caused to vibrate.

The movement of the reciprocating plate to and fro across the oven-plate dislodges the ashes which have accumulated thereon, and causes them to drop into the ash-pit.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. A reciprocating bar provided with curvilinear fingers, whereby the ashes are removed from the top of the oven-plate, as described.

2. The combination of the reciprocating bar, the front oven-plate, and the grate, as and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand.

ESEK BUSSEY.

Witnesses:

P. F. VANDERHEYDER,
CHAS. S. ANDREWS.