

G. BEDDOW.
SELF-FEEDING STOVES.

No. 195,081.

Patented Sept. 11, 1877.

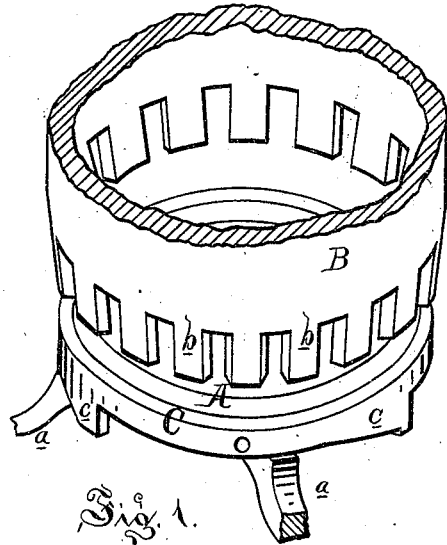


Fig. 1.

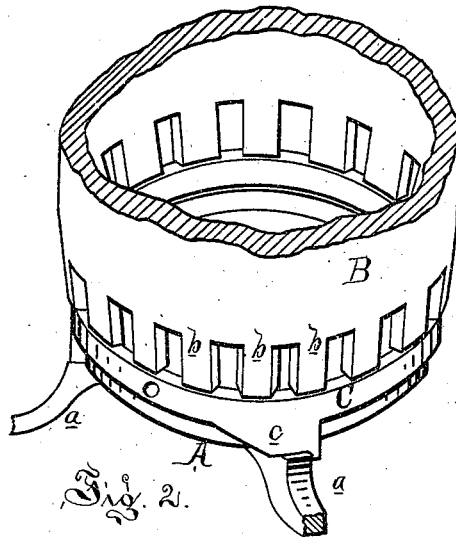


Fig. 2.

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UNITED STATES PATENT OFFICE.

GEORGE BEDDOW, OF DETROIT, MICHIGAN.

IMPROVEMENT IN SELF-FEEDING STOVES.

Specification forming part of Letters Patent No. **195,081**, dated September 11, 1877; application filed May 23, 1877.

To all whom it may concern:

Be it known that I, GEORGE BEDDOW, of Detroit, in the county of Wayne and State of Michigan, have invented an Improvement in Self-Feeding Stoves, of which the following is a specification:

My improvement has relation to that class of heating and cooking stoves in which there is an open space between the lower end of a fingered fire-pot and the surface of the grate, through which to remove ashes, clinkers, and waste or refuse, and to observe the condition of the fire, such stoves being known as "anti-clinker" stoves; and in practice it has been found that they are wasteful of fuel, from two causes. The first is imperfect combustion of fuel at the skirt of the fire-pot, by reason of the great volume of cold air passing over it into the fire-pot instead of passing up through the grate and fuel, as heretofore. The second cause of waste is due to the raking out of unignited and partially-burned coal with the ashes and refuse in cleaning the fire.

The object I have in view is to prevent the waste from these causes, by providing a ring with which to close this space except while cleaning the fire.

Figure 1 is a perspective view of a grate and fire-pot fitted with my ring for closing the space between them, the space being disclosed. Fig. 2 is a similar view, showing the space between the fire-pot and grate closed by the ring.

In the drawing, A represents the grate-ring

inclosing the grate proper, and supported by the braces *a a a* springing from the walls of the ash-pit. B is the fire-pot, with fingers *b* pendent from its lower end. C is a ring resting on the shoulders of the braces *a*, and is fitted with inclines *c* pendent from the lower edge, which, when rotated so as to ride the braces, will raise the ring high enough to close the space between the grate and fire-pot, as seen in Fig. 2.

I do not wish to be confined to a ring to be raised above the plane of the grate, as it is evident that it may be suspended on the fire-pot, so as to be lowered down to the surface of the grate.

I am aware that stoves have heretofore been constructed having grates adapted to be adjusted vertically, and by such movement to close or open a space below the rim of the fire-pot; and I hereby disclaim the same as making any part of my invention; but

What I claim as my invention is—

The combination, with a fire-pot and a grate without vertical movement supported below the same, of a ring adapted to be moved independently of the grate and to inclose entirely or disclose the space between the lower end of the fire-pot and such grate, substantially as described and shown.

GEORGE BEDDOW.

Witnesses:

H. F. EBERTS,
H. S. SPRAGUE.