

F. H. HAMILTON.
COOKING-STOVE.

No. 170,849.

Patented Dec. 7, 1875.

Fig. 3.

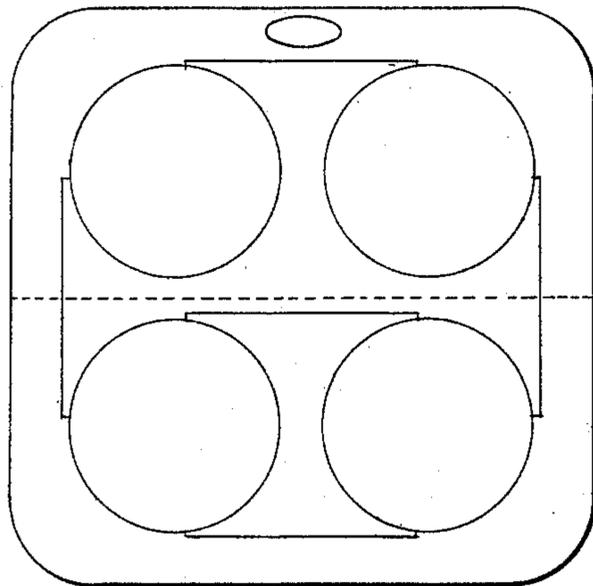


Fig. 2.

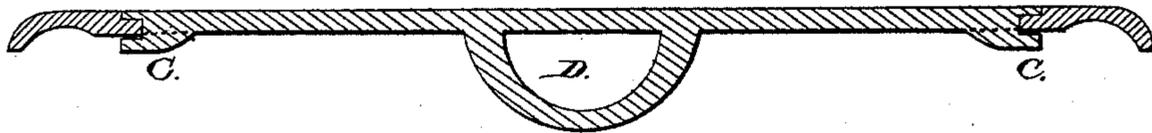
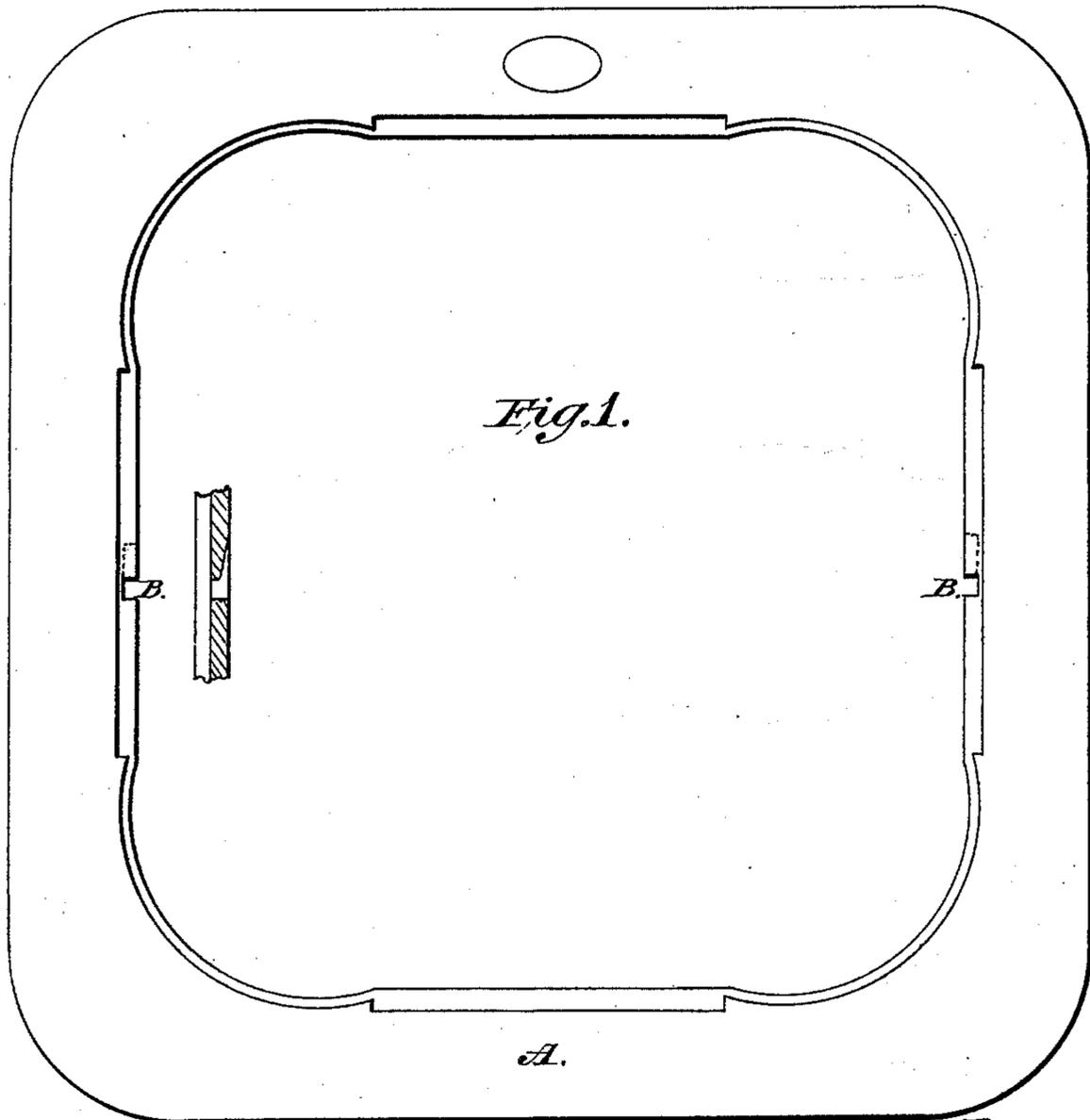


Fig. 1.



Attest:

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UNITED STATES PATENT OFFICE

FARWELL H. HAMILTON, OF BLOOMINGTON, ILLINOIS.

IMPROVEMENT IN COOKING-STOVES.

Specification forming part of Letters Patent No. **170,849**, dated December 7, 1875; application filed May 21, 1875.

To all whom it may concern:

Be it known that I, FARWELL H. HAMILTON, of the city of Bloomington, in the county of McLean and State of Illinois, have invented a new and useful Improvement in Sections for Cooking-Stoves, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

The object of my invention is to prevent the bending or curving of the long or T sections of cooking-stoves by the constant heat to which they are exposed. To obviate this a vertical or central support is generally used between the section and the top oven-plate, the effect of which is to cause the ends of the section to turn up. In some cases the ends of the section have been bolted to the stove-top, and the expansion of the section has caused the bursting of the stove-top. I obviate these difficulties by a simple device, as shown in the drawings, Figures 1 and 2.

In Fig. 1, B represents a nick in the section-seat. Fig. 2 is a transverse section of the section and top, showing a pin or projection, C, at either end of the section, which projection is adapted to be passed through the nick B at either side of the stove-top, as shown. The nicks B are placed out of the center line of the stove-top a distance equal to the diameter of the pins or projections C, and the metal of the stove-top, at the parts adjoining the nicks, is tapered or thickened from the nicks to the center line of the stove-top.

The pins or projections C having been made to enter the nicks B, the section is slid, so that the tops of the circumferences of said pins are made to bind against the tapered metal tightly and securely as soon as the center line of the section has reached that of the stove-top, the section being then in its proper place and rigidly held.

As an aid to the pins and nicks in preserving the rigidity of the section, I use a curved support, D, having a longitudinal center com-

mon with that of the said pins C. The parts of the curved support D touching the under side of the section are of a diameter or section greater than the extended part or periphery of said support, which rests upon the top oven-plate, and thus forms a substitute for vertical supports.

I am aware that two or more curves of similar shape, united at points in their peripheries, and having gradually-decreasing areas of cross-section, have been heretofore employed, which curves are, however, not employed as supports resting upon the oven-plate of the stove. The curves alluded to are designed to operate expansively and contractedly, and thus preserve the shape of the section.

My curve D is, as shown in the foregoing, a support for the section, having its rest on the oven-plate of the stove, and an element used with the hereinbefore-described fastening devices to keep the section in place. The said fastening devices will, it is seen, prevent the turning up of the ends of the section, in which office they are assisted by the support D.

Having described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

1. In combination with the stove-top, having the nicks B placed out of the center line of said top, and tapering bearing for the pins C of the long section, as described, in combination with said section, having the said pins or projections C, substantially as and for the purpose specified.

2. In combination with the long section, having the pins or projections C, adapted to be slid under the stove-top, as specified, the curved support D, having a common longitudinal center with said pins C, and acting as a support by resting on the oven-plate of the stove, as described.

FARWELL H. HAMILTON.

Witnesses:

J. N. COONS,

J. P. TEWKSBURY.