

A. C. BARSTOW.
Cooking-Stoves.

No. 137,996.

Patented April 22, 1873.

Fig. 1.

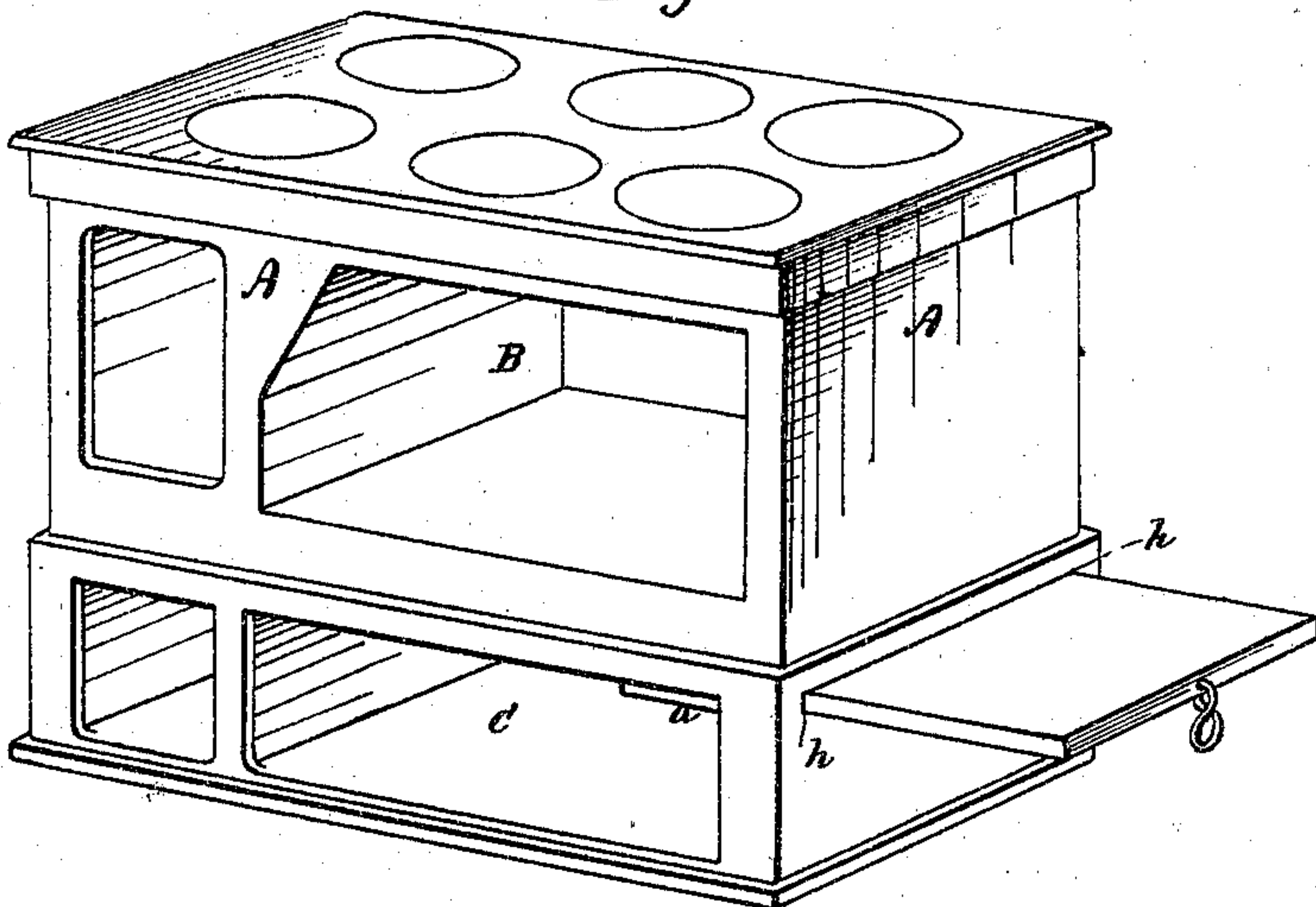


Fig. 3.

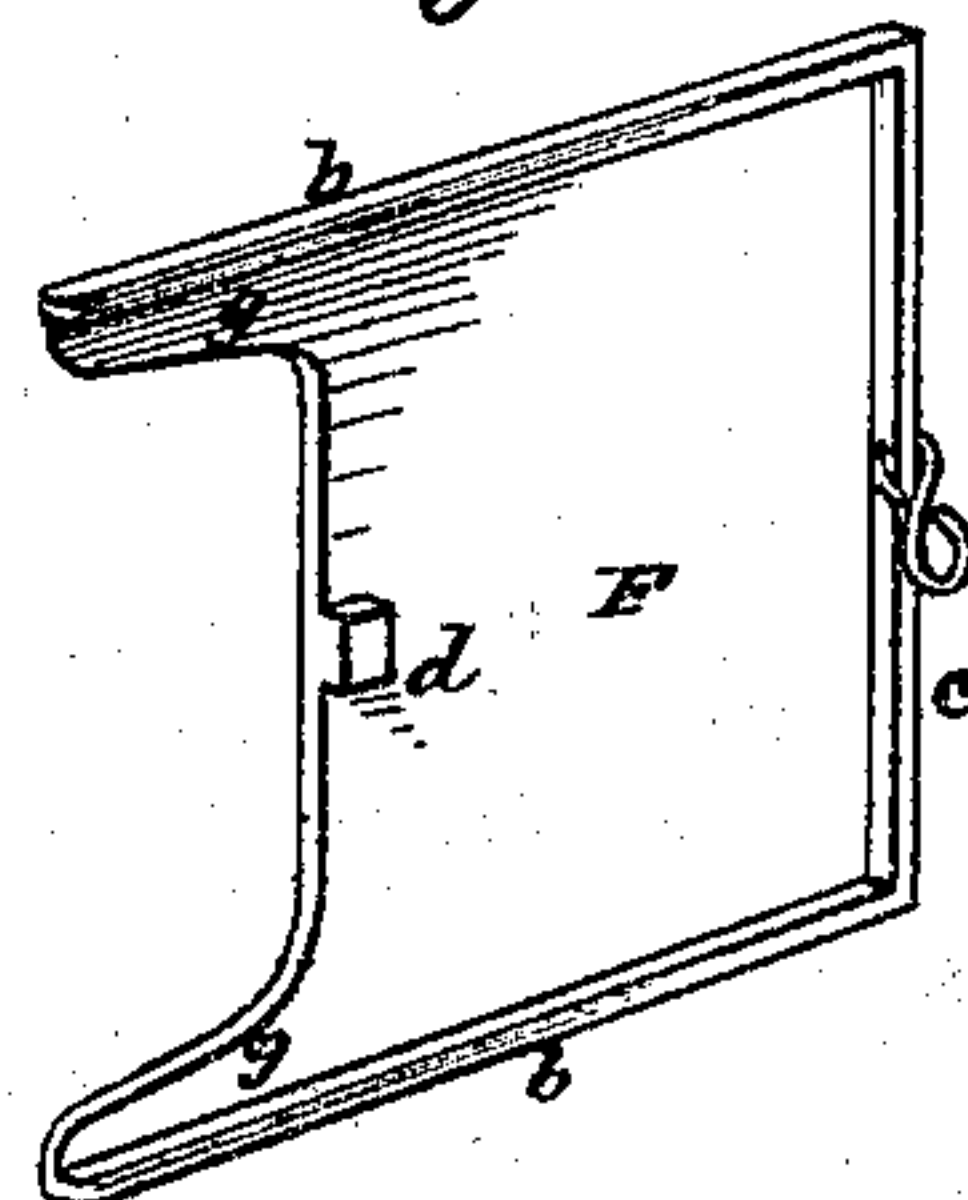
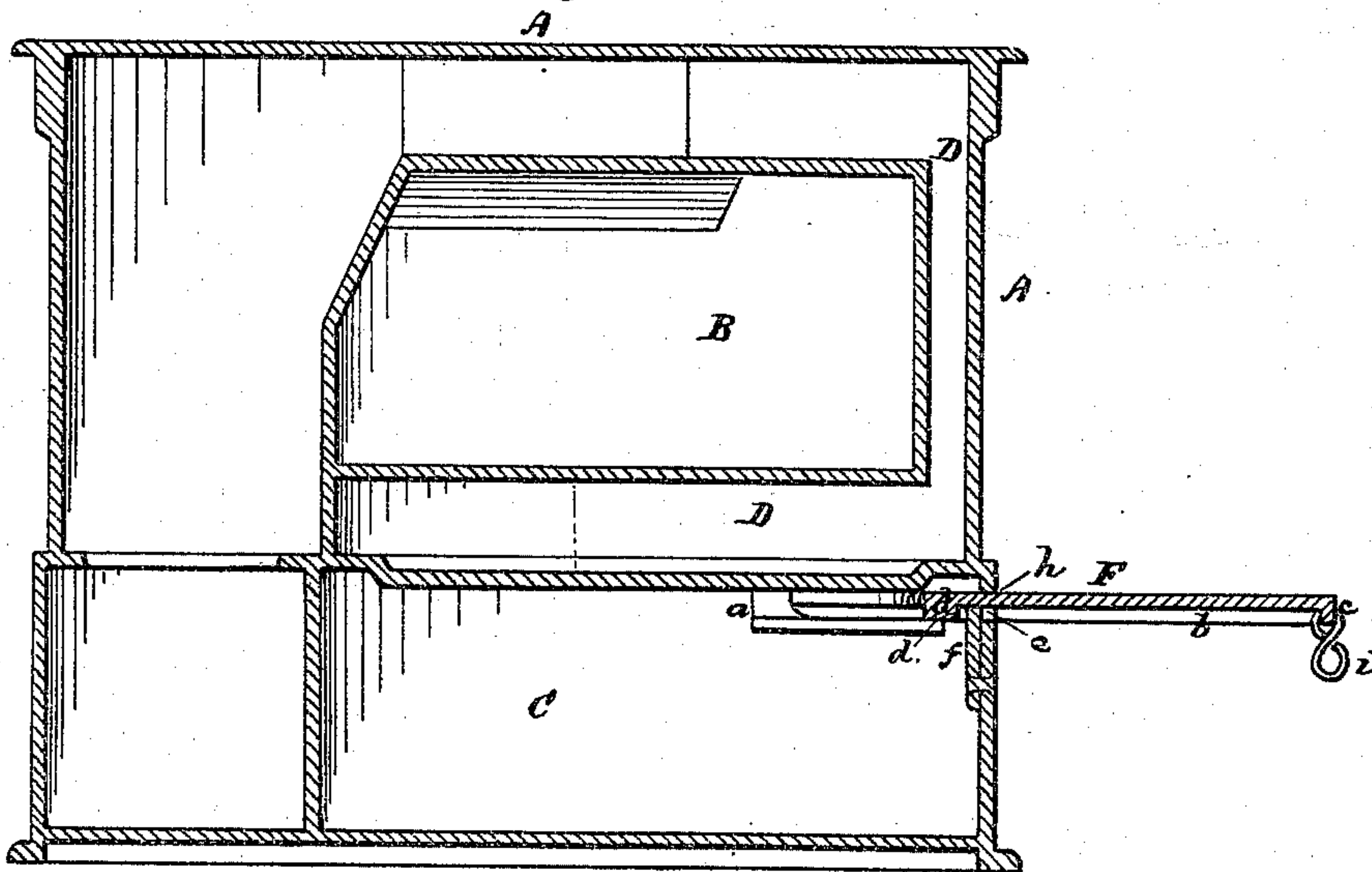


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN COOKING-STOVES.

Specification forming part of Letters Patent No. **137,996**, dated April 22, 1873; application filed March 14, 1873.

To all whom it may concern:

Be it known that I, AMOS C. BARSTOW, of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Stoves or Ranges, of which the following is a specification.

The nature of my invention consists in combining with a stove or range a horizontally-sliding shelf, located, preferably, at the rear or side of the stove or range, and beneath the oven-flue, capable of being drawn out when required for use, and of being pushed back within the body of the stove when not in use, and so arranged that at all times and in any position it will be self-supporting, as hereinafter shown and described.

The manner in which my invention is or may be carried into effect is indicated in the accompanying drawing, the stove or range to which the shelf is represented as applied being what is known as the American cooking-stove or range. Only so much of the stove or range is shown as needed to adequately illustrate the mode of application of the shelf.

Figure 1 is a perspective view, and Fig. 2 is a longitudinal vertical section, of the stove. Fig. 3 is an under-side view of the sliding shelf detached.

A is the body of the stove, B the oven, C the warming-closet, and D the oven-flue, extending around the oven, the passage of the products of combustion being governed by valves or dampers in the well-known manner, so as to cause the same, at pleasure, either to pass directly to the smoke-pipe, or to first travel around the oven through the oven flue or flues before arriving at the chimney. To the under side of the oven-flue are fixed metallic guides *a* of L shape, parallel with each other, and separated by a distance about equal to the width of the shelf, which slides between them, and is held between the lower inwardly-projecting horizontal ledges of the guides and the under side of the oven-flue. The sliding shelf *E*, as shown in Fig. 3, is, preferably, provided, at each side, with a downwardly-projecting flange, *b*, which runs on the corresponding guide *a*, as indicated in Fig. 2. The front edge of the shelf, which projects beyond the stove, is also preferably formed with a like

flange, *c*, which takes against the face of the stove or range when the shelf is pushed in, and prevents the latter from being moved too far in that direction. A horizontal slot or aperture, *h*, conforming in shape to the cross-section of the shelf, is formed in the stove or range at the point where the shelf is to be located, and the shelf slides in and out in this slot, which it should fit as accurately as practicable. To prevent the shelf from being entirely drawn out it is provided with a lug, *d*, which, when the shelf is drawn out as far as it ought to go, comes in contact with the side of the stove or range, and prevents further outward movement.

This lug can be attached to the shelf after the latter is inserted in its place; or, which I prefer, it may, like the flanges *b c*, be cast with the shelf, in which case a small notch, *e*, is formed in the stove to permit the passage of the lug when the shelf is first fitted to the stove, this notch being closed after the passage of the lug by a small patch or strip, *f*, suitably fastened over it. The lug is placed at such distance from the rear end of the shelf that when the latter is drawn out to its full extent there will still be a sufficient portion or length of shelf in rear of the lug and within the guides to support and maintain properly the projecting portion of the shelf under all conditions of use likely to occur.

To save the metal the shelf in rear of the lug may be formed, as shown, with simply two arms or projections, *g*, which run in the guides *a*.

The arrangement of the shelf just described is that which is preferred, and is, in practice, adopted; but, if desired, the shelf may be made to slide within instead of beneath the oven-flue. For instance, guides similar to guides *a* could be located on the upper side of the bottom plate of the flue, the slot *h* being formed in the stove or range side to properly correspond to the new location of the shelf. The guides thus used should, of course, be strong enough to support any weight placed on the shelf when drawn out; or, in lieu of the guides, there could be employed, on the upper side of the bottom plate, a covering-plate a little larger than the shelf, and so arranged and formed that, when bolted to the flue-plate, it

would form a tight pocket for the shelf to slide into. I much prefer, however, the arrangement first above described.

The shelf can be provided with a handle or tag, *i*, to render it easier of manipulation.

Having now described my invention, and the manner in which the same is or may be carried into effect, what I claim, and desire to secure by Letters Patent, is—

1. In ranges or cooking-stoves, of whatever construction, but having a baking-oven with or without a warming-closet, the arrangement of a shelf sliding in horizontal guides under the oven, so that it may be slid out for use, and back if not needed, substantially as herein shown and set forth.

2. A sliding shelf, arranged to run in horizontal guides or ways beneath or within the oven-heating flue, and formed with a lug or stop, or its equivalent, so located as to prevent the shelf from being drawn entirely out, and to arrest its outward movement at a point where it will still engage with its guides or ways to such an extent as to be self-supporting, substantially as shown and set forth.

In testimony whereof I have signed my name to this specification before two subscribing witnesses.

AMOS C. BARSTOW.

Witnesses:

STEPHEN A. COOKE, Jr.,
JOHN H. GOULD.