

WILLIAM S. TEEL.

Sad Iron Heater.

No. 123,061.

Patented Jan. 23, 1872.

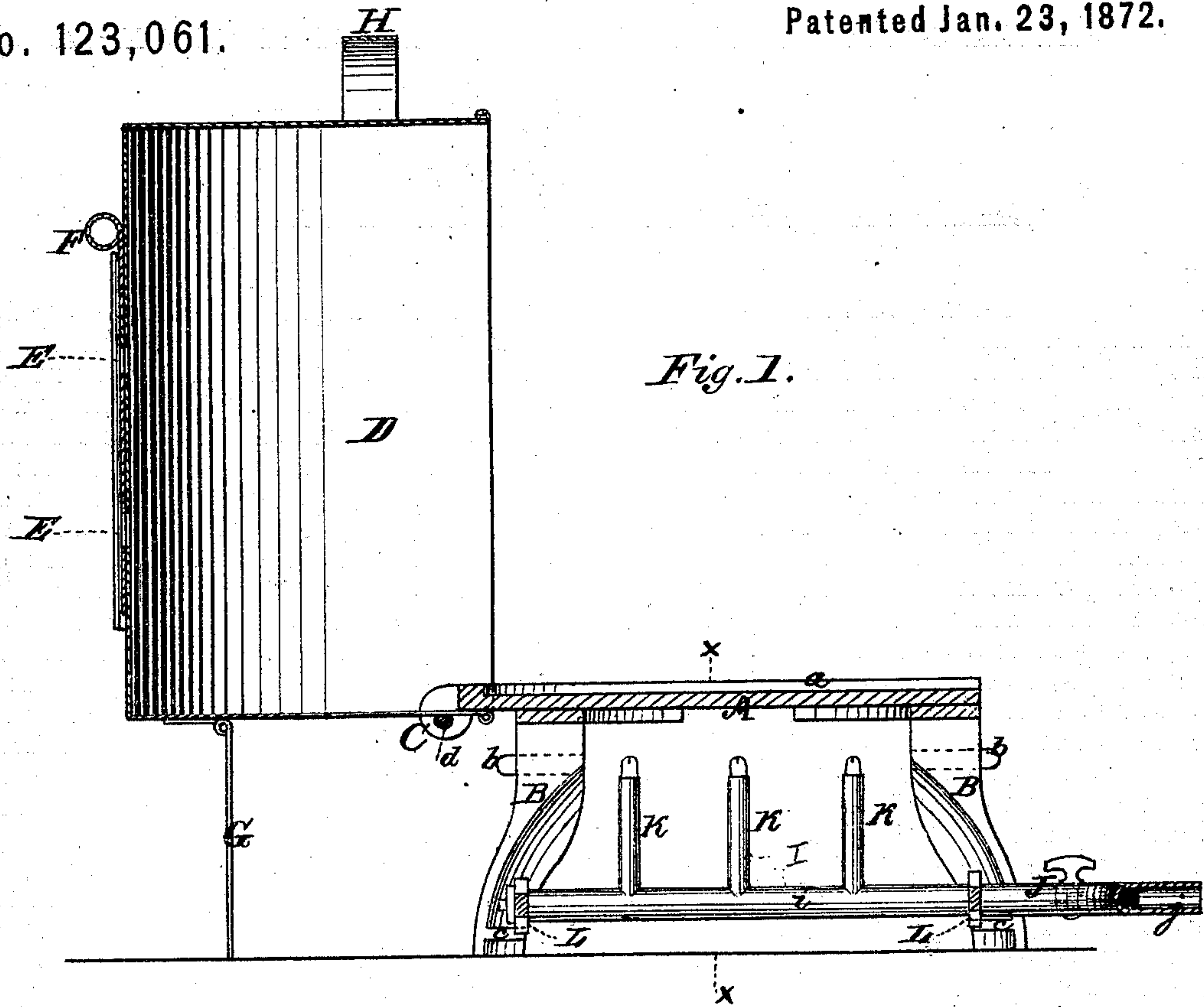
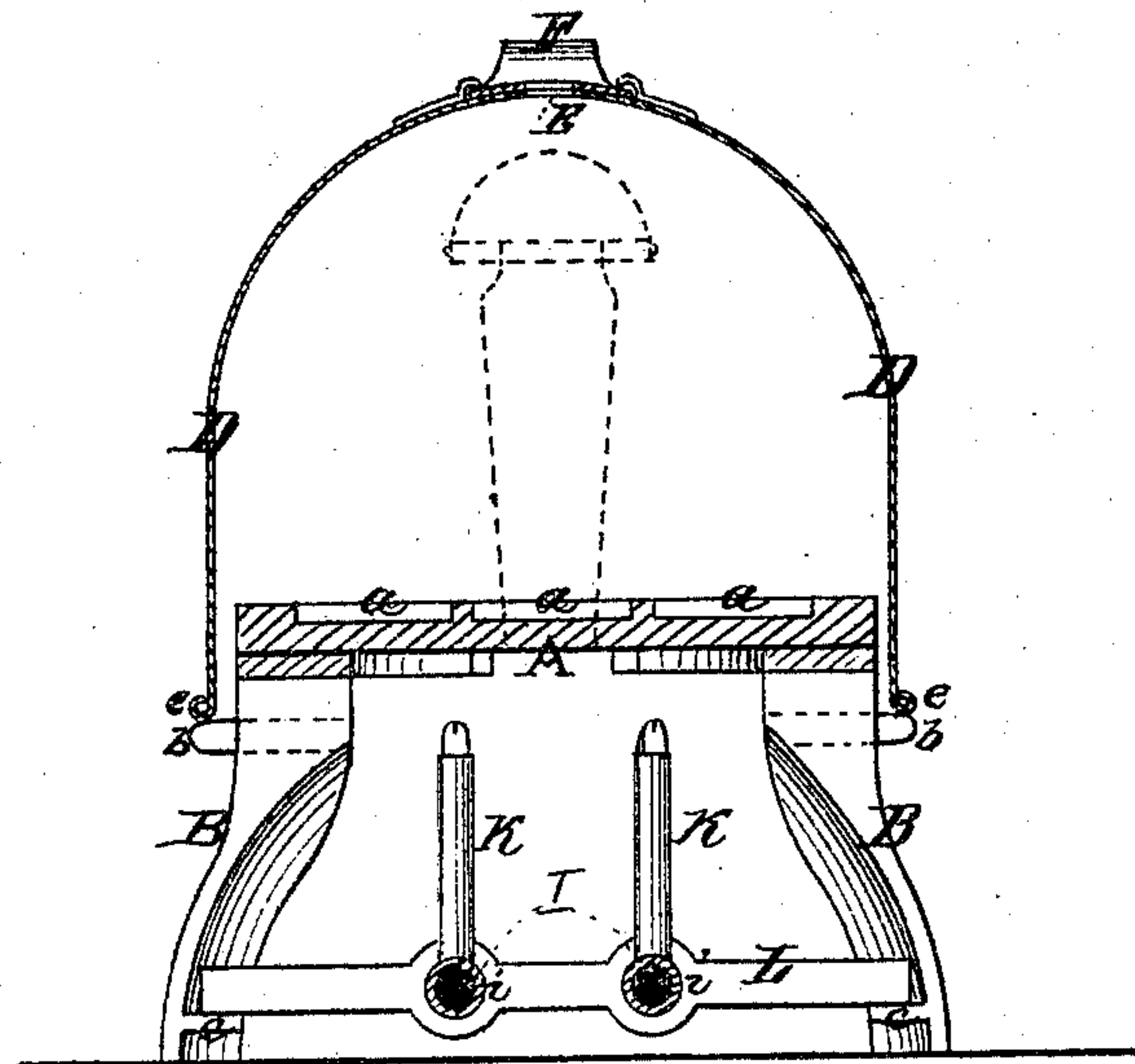


Fig. 2.



Witnesses:

T. C. Brecht.
John Taylor

Inventor:

Wm. S. Teel.
By Atty Wm. C. W. Smith

UNITED STATES PATENT OFFICE.

WILLIAM S. TEEL, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN SAD-IRON HEATERS.

Specification forming part of Letters Patent No. 123,061, dated January 23, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, WM. S. TEEL, of Washington city, in the county of Washington and District of Columbia, have invented certain new and useful Improvements in Sad-Iron Heaters; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing making a part of this application.

My invention has for its object to provide an iron-heating device by which tailoring and other sad irons may be heated without producing to any extent external heat, and consequently especially adapting it to summer use, though it may be advantageously used under any circumstances, especially when it is either impossible or inconvenient to have a regular heating-stove; and to these ends my invention consists in the peculiar construction and arrangement of the parts of the apparatus, as will be hereinafter more fully set forth.

To enable those skilled to make and use my improvement, I will proceed to describe the same, referring by letters to the accompanying drawing, in which—

Figure 1 is a longitudinal vertical section of my improved heater with the cover thrown back, and Fig. 2 is a transverse section at the line *x x* of Fig. 1 with cover down.

Similar letters denote like parts in the two figures.

A is a cast-iron heating-plate, provided with any number of "countersinks" or depressions *a*, adapted to receive and contain the bottoms of the sad-irons to be heated. B B, &c., are the cast-iron legs or feet, which are adapted to fit into the dovetail channels on the under side of the heating-plate A in the same manner that the legs of ordinary stoves are secured in place. These legs are provided near the top with a head, *b*, which forms a stop and support for the cover when closed, and at or near their lower extremity with a web, *c*, for the purpose presently explained. The heating-plate A is cast or otherwise provided with ears C at the rear end, which are pierced to receive the hinge-wire *d*, which passes through said ears and loops on the back end of the cover, thus forming a hinge. D is the cover, which is made of galvanized iron or other suitable sheet

metal, though I prefer galvanized iron, and preferably of the shape shown, its top being pierced with any number of ventilating-holes E, which may be opened or closed by a slide, F, which, for obvious reasons, has corresponding holes in it. To the back end of this cover D is hinged a gravity-leg, G, which, when the cover is lifted up, serves as a support to retain it in the position seen at Fig. 1, and drops down, as seen in dotted lines at Fig. 2, when the cover is closed. A handle, H, of any kind is provided with which to lift the said cover. It will be seen by reference to Fig. 2 that when the cover is closed the edges *e* rest upon the beads *b* on the legs B, leaving the heating-plate A projecting up beyond the edge of the cover, so that no unutilized heat shall escape. I is a frame, of gas or other pipe, having two longitudinally-arranged supply-pipes, *i*, connected at the front end by a branch joint, J, to the single end *j* of which a rubber or other connecting-pipe may be attached. These pipes *i* may be provided with any desired number of burners K, the flames from which strike immediately against the under side of the heating-plate. The pipes *i* run through and are secured to cross-bars or supports L at either end, which are adapted to rest upon the webs *c* of the feet B.

It will be seen that this frame is held in position without any nuts or other positive locking devices, thus rendering the whole thing portable.

It is put in place by simply stretching the legs B apart until the cross-bars L can be held immediately above the webs, when the legs are forced into their place, and thus the frame is lodged securely upon the said webs.

It is designed in the manufacture of my improved heater to make the frame above referred to of such dimensions and design as to permit of its being put into the cover, where the legs also may be placed, when it is desired to pack for transportation. When necessary to remove the cover D the only thing required is to withdraw the hinge-wire which passes through the ears C and loops on back end of cover.

I have found from experience that iron may be heated in this kind of apparatus as rapidly and effectually as upon an ordinary stove, and

without the inconvenience arising from the external heat produced by the latter, while the former may be shifted from place to place for the convenience of the operative; and when not in constant use, the dictates of economy may be obeyed by extinguishing the gas or other inflammable agent employed.

The object of the ventilator F is to prevent the sweating which takes place until the irons are heated to a certain temperature, as well as to regulate at any time the amount of heat within the cover.

Having described the construction, &c., of my improvement, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the heating-plate A, constructed as described, the swinging cover or dome D, provided with a ventilator and

gravity-leg, substantially as and for the purposes set forth.

2. The combination and arrangement of the legs B having the dome-support *b* with the heating-frame and cover, as and for the purposes set forth.

3. The heating-frame, composed of the pipes *i k* and cross-bars L and legs of an iron-heater, so constructed and arranged together that they may be readily removed and placed within the cover, as and for the purposes described.

4. A cover for an iron-heater provided with a ventilator and gravity leg, either or both, as and for the purposes hereinbefore set forth.

WILLIAM S. TEEL. [L. S.]

In presence of—

C. MAURICE SIOUSSA,
JOSEPH BEARDSLEY.