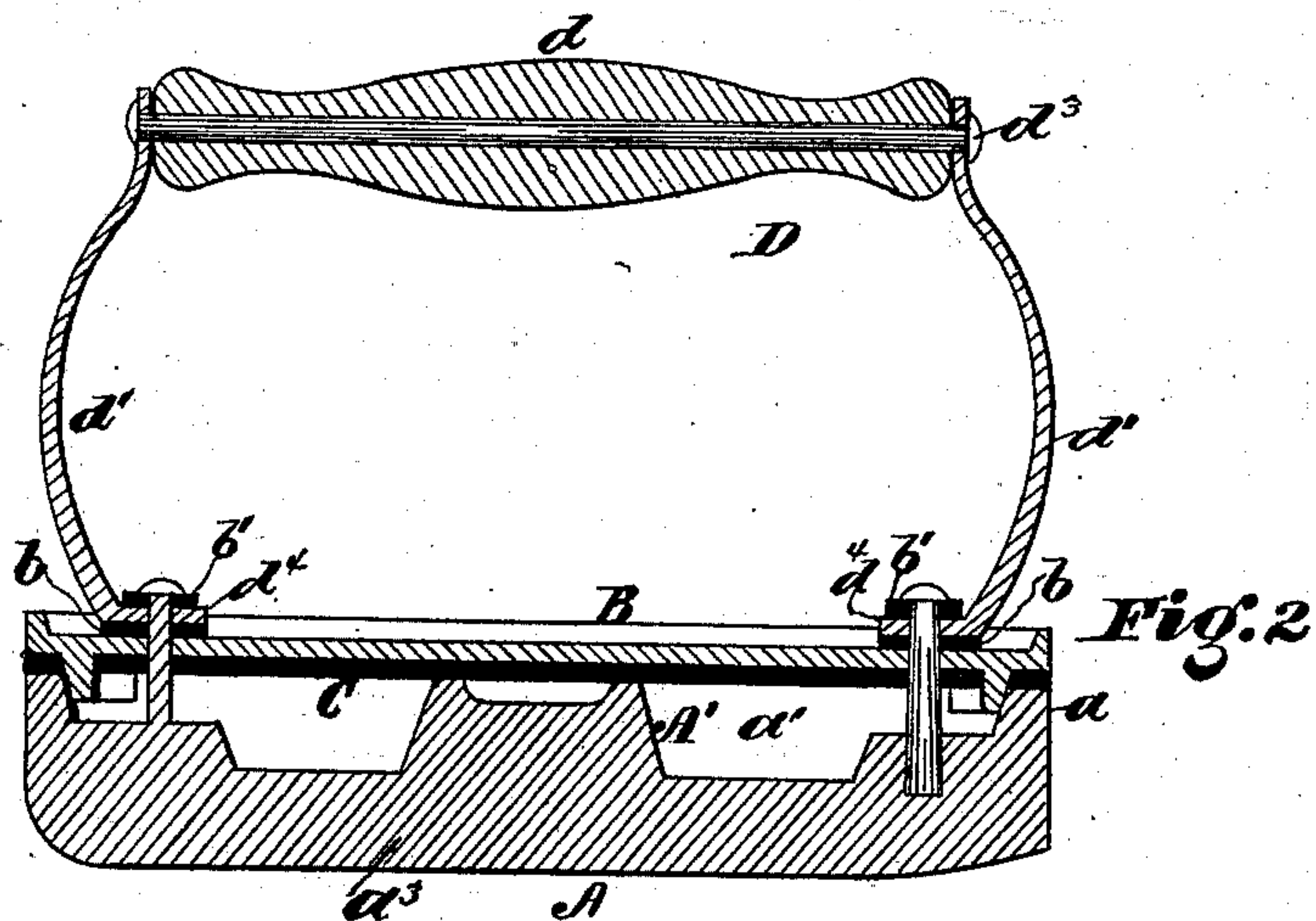
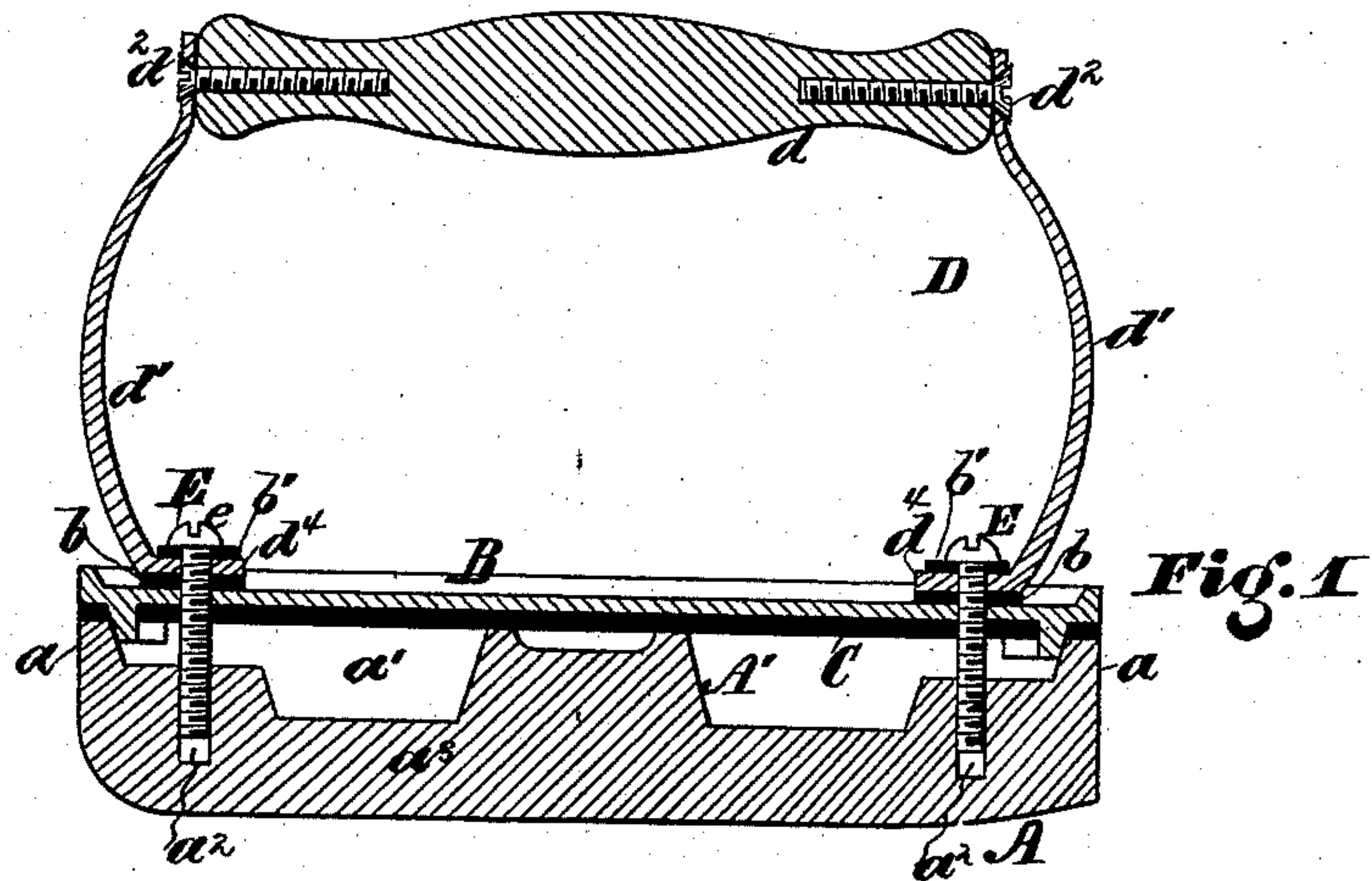


I. P. CHALFANT.
Sad-Iron.

No. 205,352.

Patented June 25, 1878.



WITNESSES:
Saml. J. Vanstavern
Jos. B. Connolly

Isaac P. Chalfant INVENTOR
by Connolly Bros. ATTORNEYS.

UNITED STATES PATENT OFFICE.

ISAAC P. CHALFANT. OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN SAD-IRONS.

Specification forming part of Letters Patent No. 205,352, dated June 25, 1878; application filed May 8, 1878.

To all whom it may concern:

Be it known that I, ISAAC P. CHALFANT, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Sad or Smoothing Irons; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figures 1 and 2 are longitudinal vertical sections.

The primary object of my invention is to provide an iron which will be comparatively inexpensive, and from which, when in use, the radiation of heat upwardly toward the handle will be prevented.

My invention accordingly consists in the combination, with an iron having a dead-air space and a detachable metallic cap, of a lining of asbestos, forming a ceiling to said dead-air space and a non-conducting joint between the body and cap; also, in the specific construction, combination, and arrangement of parts, as hereinafter described and claimed.

Referring to the accompanying drawing, A is the body of the iron, cast hollow with upright walls aa , which inclose a dead-air space or chamber, a^1 . A' is a central elevation or post rising from the bottom of said chamber a^1 . B is a detachable metallic cap for the chamber a^1 ; and C is a lining of asbestos, forming a ceiling for the chamber a^1 .

D is the handle, composed of the wooden hand-piece d secured to metallic standards d^1 by screws d^2 , which enter its ends, as shown in Fig. 1, or by a rod, d^3 , extending all the way through said handle, as seen in Fig. 2.

The standards d^1 are bent to form feet d^4 , which rest upon washers b interposed between said feet and the cap B, said washers being of asbestos or other non-conducting material.

E E are screws, which pass through the feet d^4 , cap B, lining C, and chamber a^1 to threaded openings a^2 in the floor of said chamber. The screws E E accordingly serve not only to retain the cap B in its place on the

body A, but also to secure the handle-standards to said cap. Non-conducting washers b' are also fitted on the screws E between their heads e and the feet d^4 .

Air being a poor conductor of heat, the chamber a^1 will serve to hinder the too free radiation of caloric from the bottom of the body A upwardly, while the asbestos ceiling C will absolutely prevent the transmission of heat through it, and will thereby protect the operator's hand from discomfort.

The washers $b b'$ will prevent the heat of the iron from being conducted to the handle-standards through the screws E. The asbestos lining C rests upon the upright walls of the body, and between the same and the cap B, thus forming a tight non-conducting joint, and is supported centrally against said cap by the central post A' .

The bottom a^3 , it will be noted, is made of considerable thickness, so as to retain heat for a long time, the iron being designed to be heated by being placed upon the stove or range in the manner of a common flat or sad iron, and therein differs from hollow irons consisting of thin shells heated by means of slugs or cores introduced into their interiors, the bottoms of said shells being of very slight thickness, so as to permit the free outward or downward transmission of heat.

What I claim as my invention is—

1. In combination with an iron, A, having a dead-air space or chamber, a^1 , and a detachable metallic cap, B, a lining of asbestos, C, forming a ceiling to said air-chamber, and a non-conducting joint between the body and cap, substantially as shown and described.

2. The combination of iron A, having air-chamber a^1 and central post A' , detachable cap B, asbestos lining C, handle D, screws E E, and washers, substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 4th day of May, 1878.

ISAAC P. CHALFANT.

Witnesses:

JOHN RODGERS,
M. D. CONNOLLY.