

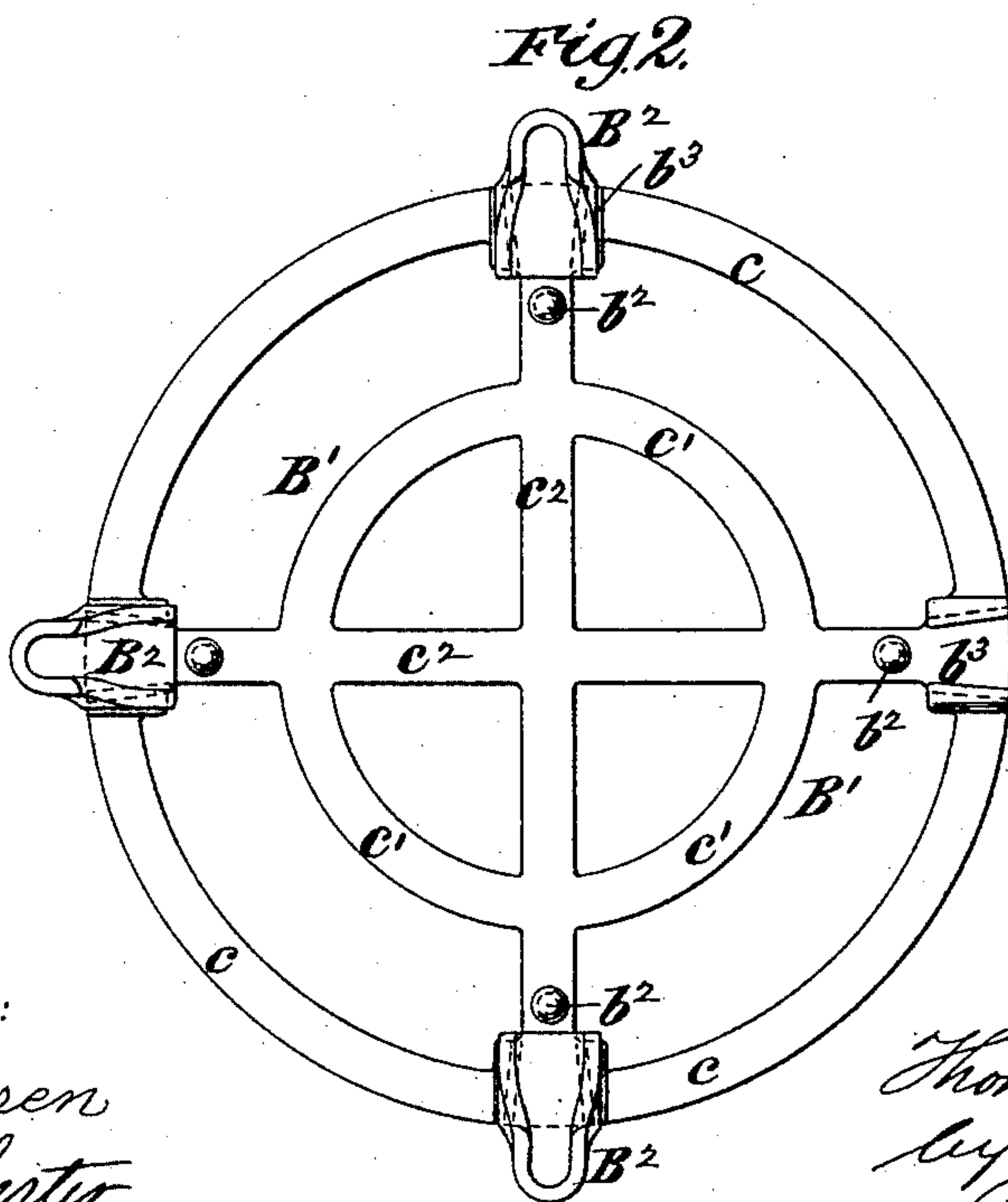
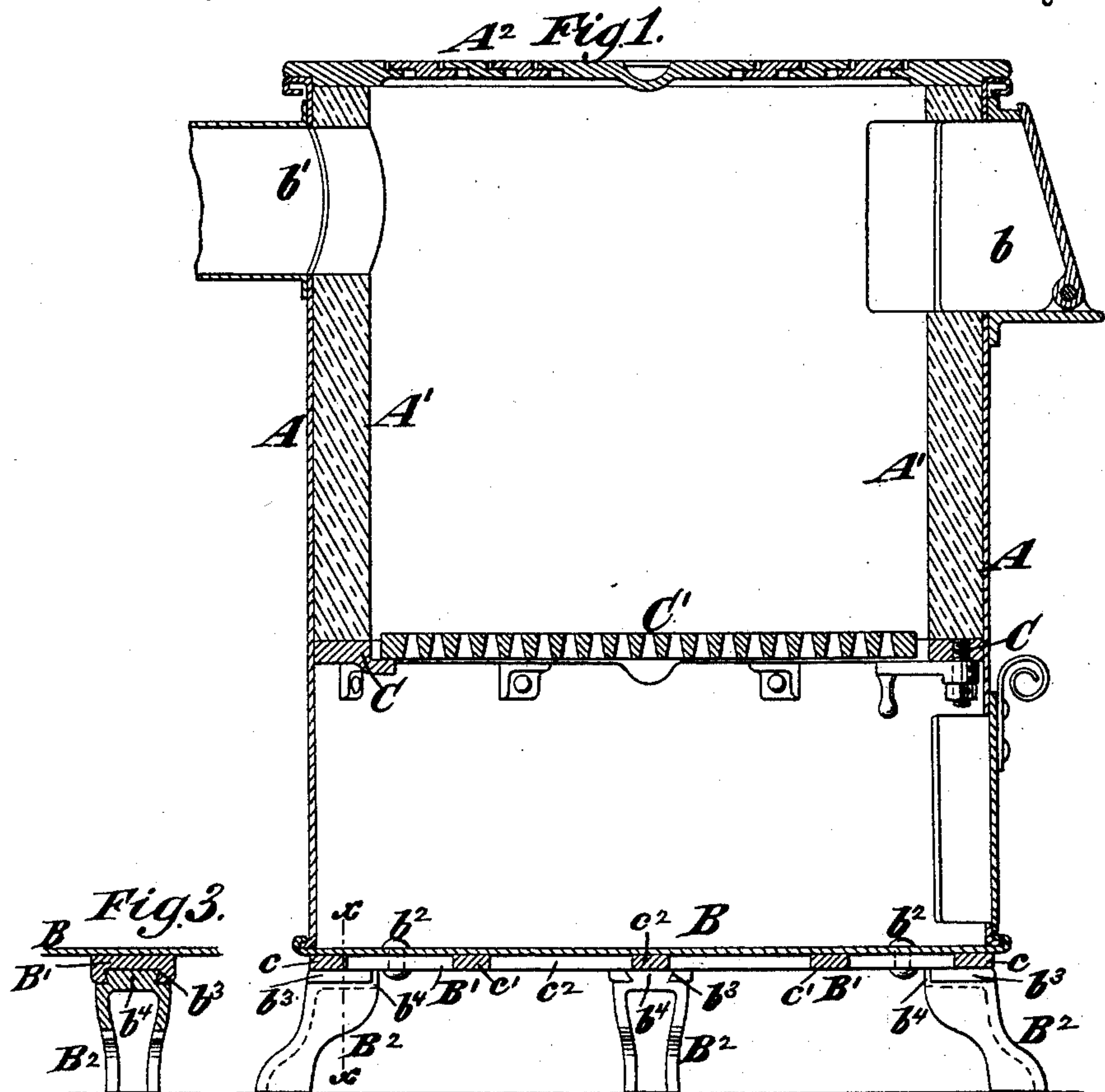
(No Model.)

T. BURKHARD.

STOVE.

No. 362,199.

Patented May 3, 1887.



Witnesses:

O. Sundgren
Emil Hertz

Inventor:

Thomas Burkhard
by his attys
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UNITED STATES PATENT OFFICE.

THOMAS BURKHARD, OF BROOKLYN, NEW YORK.

STOVE.

SPECIFICATION forming part of Letters Patent No. 362,199, dated May 3, 1887.

Application filed November 2, 1886. Serial No. 217,765. (No model.)

To all whom it may concern:

Be it known that I, THOMAS BURKHARD, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Stoves, of which the following is a specification.

My invention relates solely to stoves such as are used by confectioners, and in which the sheet-metal bottom, on which the fire is often dumped, is prevented from bulging and cracking, due to expansion and contraction, by a skeleton base piece or frame of cast metal permanently secured to the bottom, as is shown and described in my Letters Patent No. 310,647, dated January 13, 1885, and the invention will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical section of a stove embodying my invention. Fig. 2 is an inverted plan of the skeleton cast-metal base-piece, one of the feet being removed therefrom; and Fig. 3 is a vertical section upon the plane of the dotted line xx , Fig. 1, through the sheet-metal bottom, the skeleton cast-metal base-piece, and a leg or foot.

Similar letters of reference designate corresponding parts in the several figures.

The upright cylindric body A of the stove is made of sheet metal, as also the bottom B. The portion of the body A which is above the ring C, whereby the grate C' is supported, has a lining of fire-brick, A', or other suitable material, and has a suitable fire-door, b, and smoke-escape pipe b'. The top A² of the stove may consist of a series of concentric rings, whereby provision is afforded for obtaining a hole of any desired size in which to place a kettle.

To stiffen and sustain the sheet-metal bottom B of the stove, there is employed a skeleton cast-metal base-piece, B', which may be secured to the sheet-metal bottom B by rivets or other suitable securing devices, b², and which is inseparable from the sheet-metal bottom, save by cutting the rivets. As here represented, the skeleton cast-metal base-piece is formed by concentric rings $c\ c'$ and cross-bars c^2 , and has legs or feet B², upon which the stove is supported. These legs or feet are not cast with the base-piece B', but are made separate therefrom and adjustably or detachably secured thereto. When the stove is packed for shipment, the legs are removed

and placed within the stove, and the outside dimensions of the stove are thereby reduced. An additional advantage of forming the legs separate from and adjustably securing them to the cast-metal base-piece is, that if one of the legs become broken, either during manufacture or while the stove is in use, it is necessary to renew only a single leg or foot. On the other hand, if the feet or legs B² were formed integral with the cast-metal base-piece B', it would be necessary to cut loose the skeleton base-piece entirely from the sheet-metal bottom B, and to renew the whole base-piece and rivet it to the sheet-metal bottom B.

In the present example of my invention the cast-metal base-piece B' is provided with dovetailed and taper slideways or channels b³, into which the dovetailed tongues b⁴ of the feet or legs B² are inserted.

In Fig. 2 I have shown one of the feet or legs B² removed, in order to more clearly illustrate the dovetailed channel or seat b³ which receives it.

It will be observed that the slideways or channels b³, which receive the feet or legs B², are at the ends of the cross-bars c^2 , which form an integral part of the cast-metal base B', and hence the metal of the base is disposed so as to most effectively brace the feet or legs B².

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a sheet-metal stove, a sheet-metal bottom, B, a cast-metal skeleton base piece or frame, B', permanently secured to the sheet-metal bottom and having the slideways or channels b³ on its under side, and the legs or feet B², detachably secured to the base or frame by fitting said slideways or channels, and through said frame attached to the sheet-metal bottom, all combined substantially as herein described.

2. The combination, with the sheet-metal stove-bottom B, of the skeleton cast-metal base or frame B', permanently secured to the sheet-metal bottom and composed of annular portions $c\ c'$ and cross-bars c^2 , and legs or feet B², detachably secured to the cast-metal base or frame at the termination of said cross-bars, substantially as herein described.

THOMAS BURKHARD.

Witnesses:

FREDK. HAYNES,
EMIL HERTER.