

S. Smith.
Heating Stove.

N^o 55,728.

Patented Jan. 19, 1866.

Fig 1

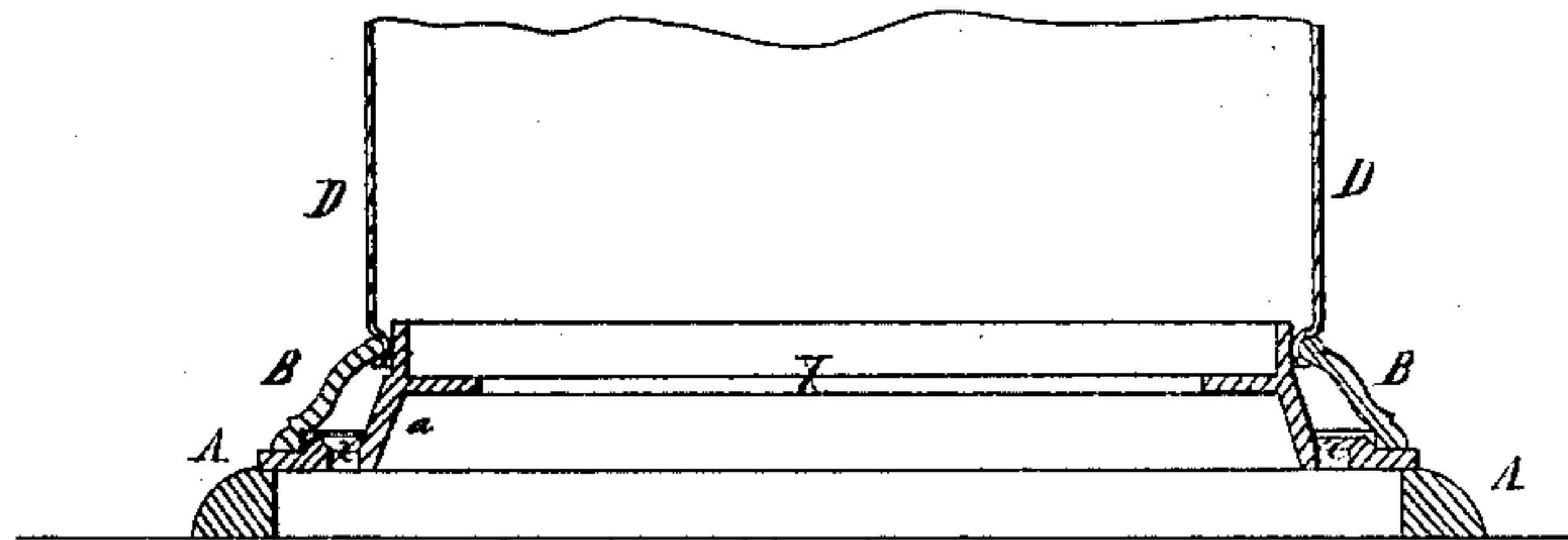


Fig 2

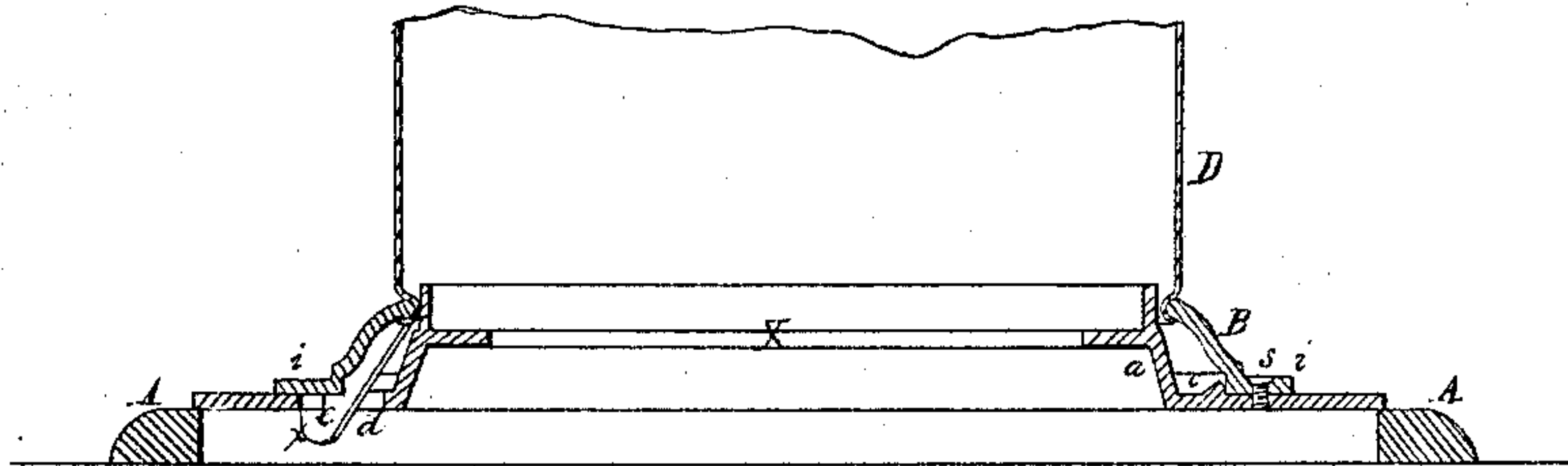


Fig 3

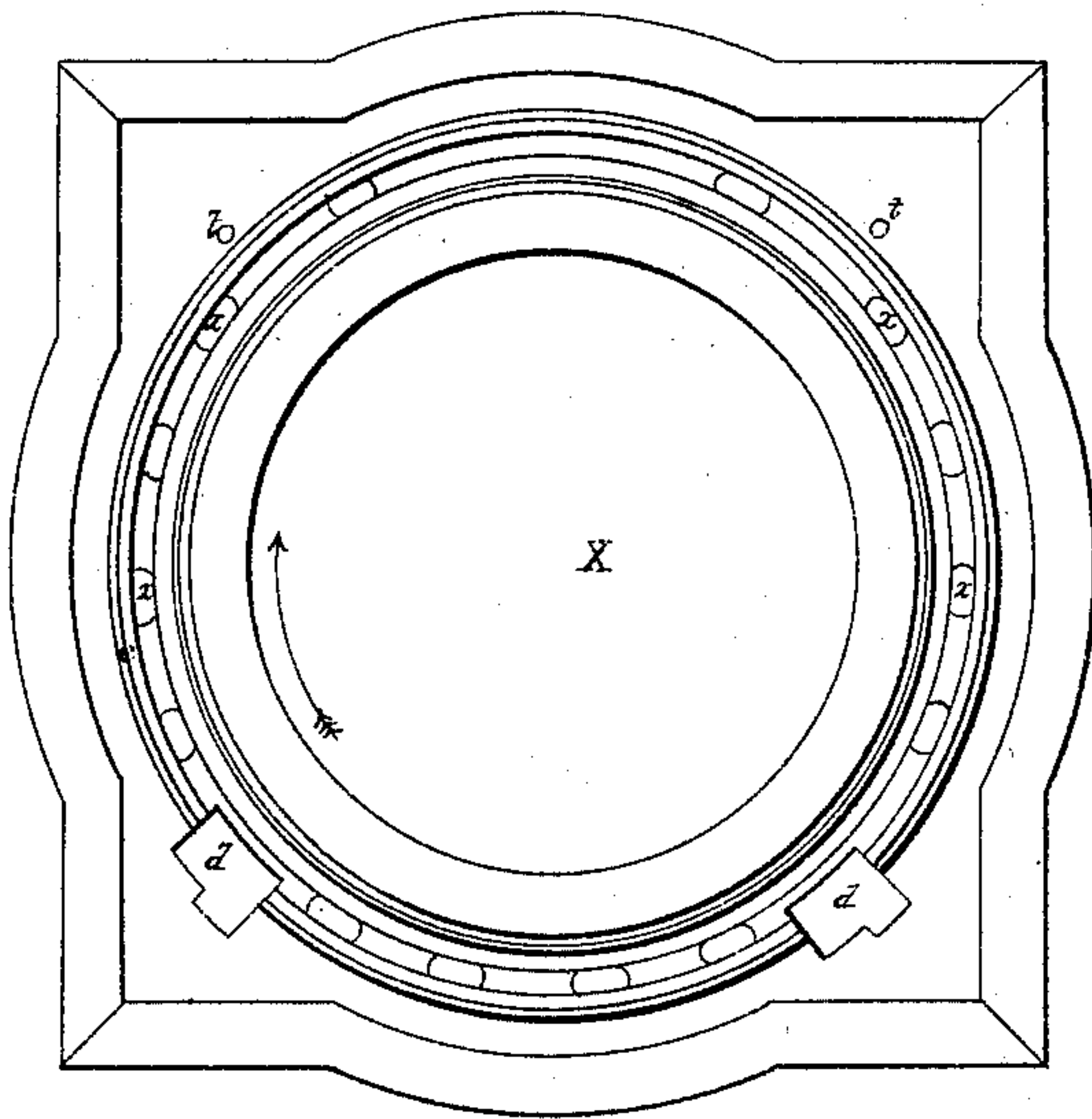
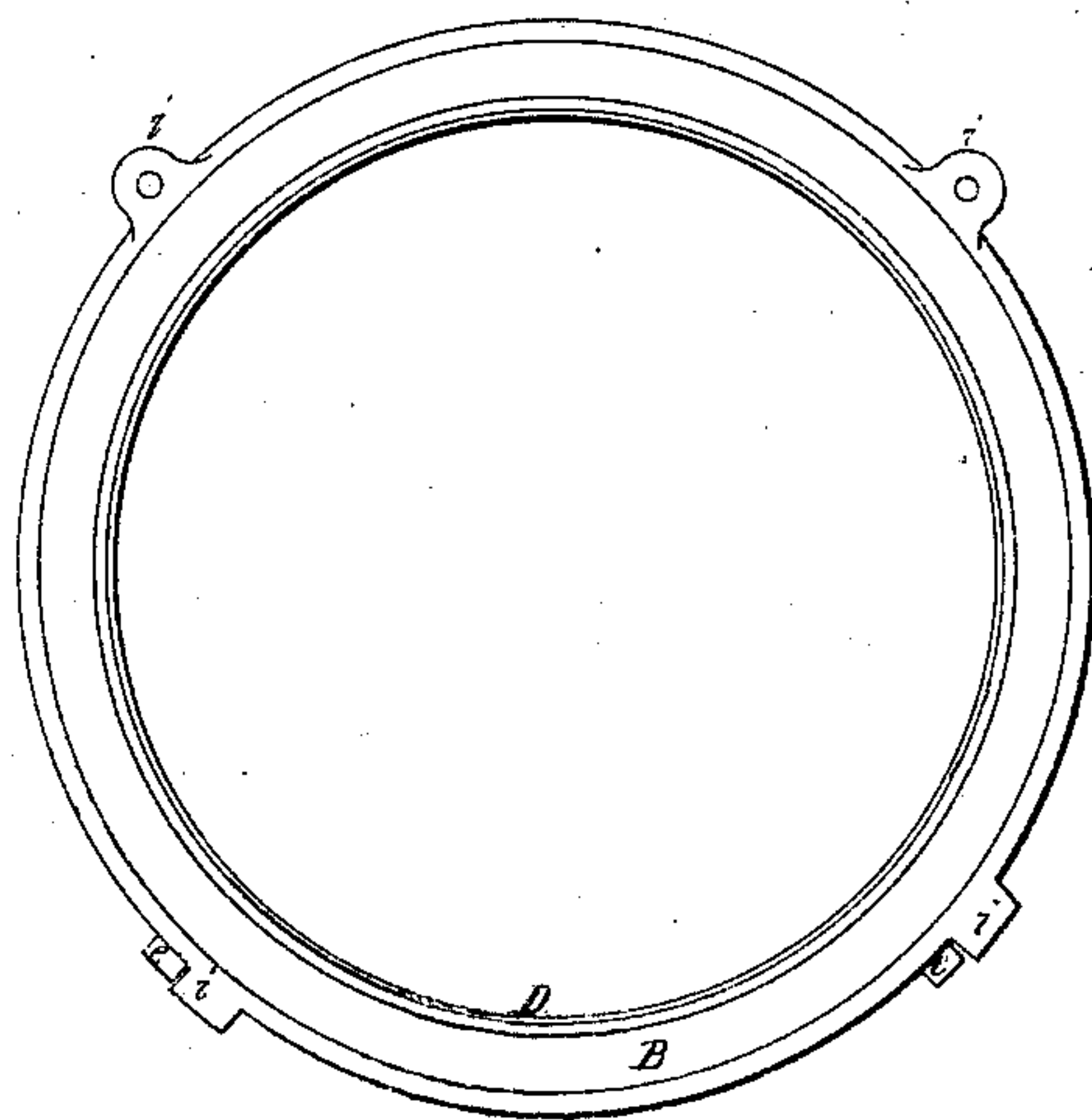


Fig 4



Witnesses
John Parker
J. H. Horse Goddard

Inventor
S. Smith
By his attorney
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UNITED STATES PATENT OFFICE.

SAMUEL SMITH, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN HEATING-STOVES.

Specification forming part of Letters Patent No. 55,728, dated June 19, 1866.

To all whom it may concern:

Be it known that I, S. SMITH, of Philadelphia, Pennsylvania, have invented an Improvement in Stoves; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention consists of a ring constructed and secured to the sheet-iron cylinder of a stove, and adapted for attachment to the base or top plate of the latter, as fully described hereinafter, so that the different parts of the stove may be quickly secured together or detached from each other, and so that the stove may be transported with less danger of injury than those of ordinary construction.

My invention further consists of the combination, with the above, of a base-plate having openings so arranged as to prevent the ashes from escaping from the interior of the cylinder onto the exposed portion of the base-plate.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

On reference to the accompanying drawings, which form a part of this specification, Figures 1 and 2 are sectional elevations of sufficient of a cylinder-stove to show my improvement, and Figs. 3 and 4 are plan views of parts of the stove.

In the upper base-plate, A, of the stove is a central opening, X, and round the edge of the latter is the usual annular flange *a*. On the base-plate, a short distance from the flange *a*, is an annular rib, *c*, which is concentric with the flange, and between the two are openings *x x*, for a purpose described hereinafter.

B is a metal ring, the upper edge of which is in contact with a shoulder on the sheet-iron body or cylinder D of the stove, the lower edge of the cylinder being bent outward so as to project below the inner edge of the ring, as shown in the drawings, the body and ring being thus firmly secured together.

In the plate A are two openings, *d d*, each of which is larger at one end than at the other, and on the under side of the ring B are two

lugs, *e e*, the ends of which project beyond the edge of the ring, for a purpose described hereinafter.

At the side of the ring B are four projections, *i i i' i'*, each of the projections *i i* being adjacent to one of the lugs *e*, while each of the projections *i' i'* is perforated to permit a screw, *s*, to be passed through the same into an opening, *t*, in the base-plate.

When the body is to be secured to the base-plate the ring B is brought over the plate and the lugs *e e* are passed through the large ends of the openings *d d*. The ring is then turned in the direction of the arrow, Fig. 3, when each lug *e* will be brought to the small end of the opening *d*, the projecting portion of the lug extending beneath the plate A, thus preventing the ring from being raised from the same, while the projections *i i* extend over and cover the large ends of the openings *d d*. The screws *s* are now passed through the lugs *i' i'* into the base-plate, the ring being thus both secured at the opposite side and prevented from turning.

In stoves of the ordinary construction the lower edge of the sheet-metal cylinder fits over the flange *a*, and sometimes, when the stoves are to be transported any distance, is secured to the flange by means of metal rivets. As the cylinder is but little larger than the flange, it is frequently a matter of difficulty to fit the two together, especially if the cylinder happens to be detached after the stove has been used for a little time. After the stove has been in use a short time, also, the fine ashes frequently escape between the cylinder and the flange *a* onto the base-plate and present an unsightly appearance.

In the above-described stove the cylinder may be readily and quickly attached to the ring, which is sufficiently rigid to prevent the cylinder from being bent at the edge during transportation, while the ring and base-plate may be secured quickly together without the necessity of employing skilled workmen. Should any ashes escape between the flange *a* and the cylinder, they will fall through the openings *x* to the ash-box.

It will be apparent that the upper end of the cylinder may be secured in a like manner to the top plate or cap of the stove, and that

other devices than those described may be employed for connecting the ring B to the base or cap plate.

Without therefore confining myself to the precise arrangement and construction of parts herein described,

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

1. The ring B, secured to the cylinder D, constructed and adapted for attachment to the base or cap plate of a stove, substantially as described.

2. The combination, with the above, of the base-plate A, with its openings *x*, arranged as set forth, for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL SMITH.

Witnesses:

CHARLES E. FOSTER,
W. J. R. DELANY.