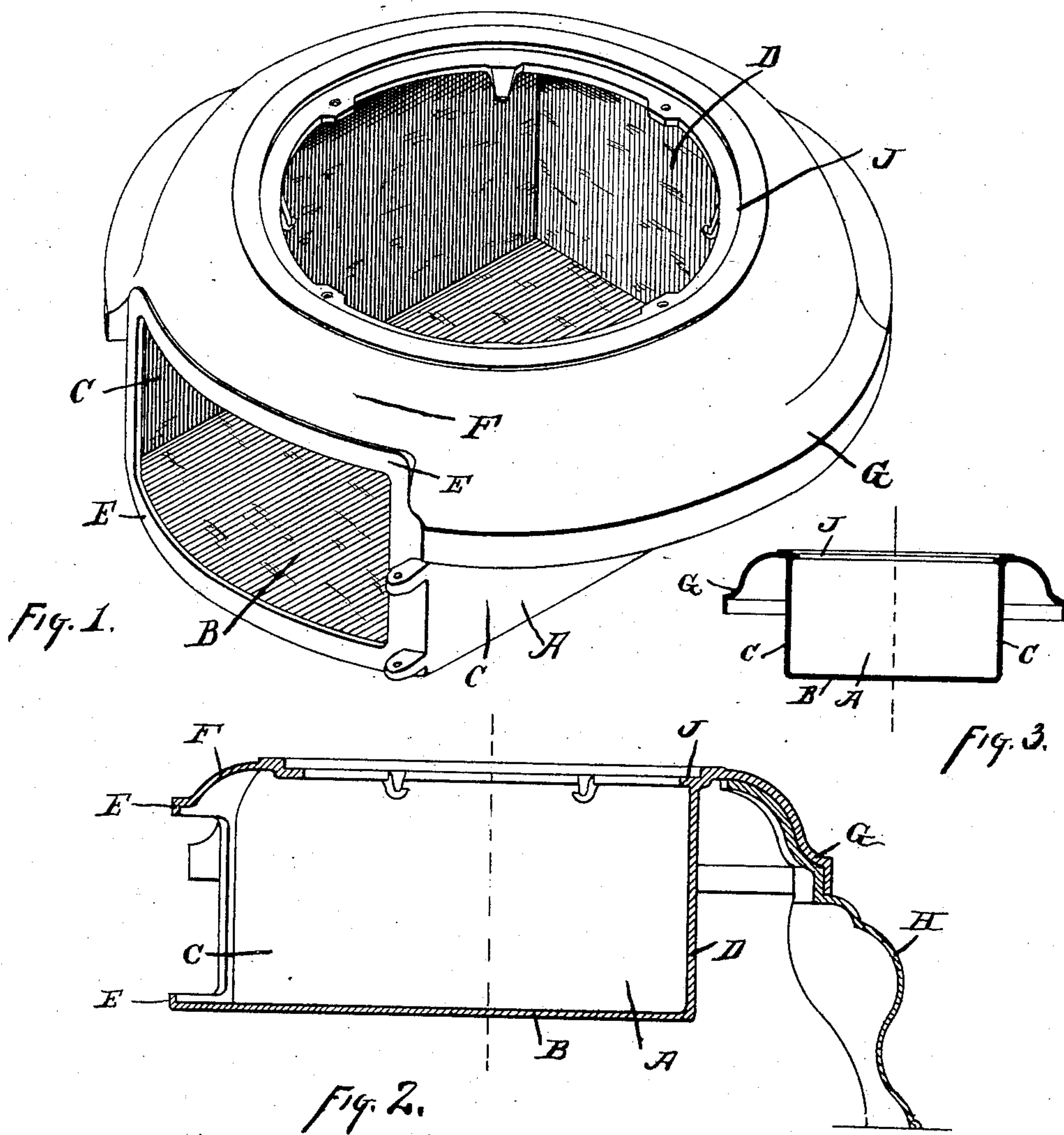


(No Model.)

L. KAHN & R. CHRIST.
ASH BOX FOR STOVES.

No. 472,577.

Patented Apr. 12, 1892.



Witnesses:
M. S. Belden
P. P. Shreehan

Sazard Kahn
Rinehart Christ Inventors
by *James W. See*
Attorney

UNITED STATES PATENT OFFICE.

LAZARD KAHN AND RINEHART CHRIST, OF HAMILTON, OHIO, ASSIGNORS
TO F. & L. KAHN & BROS., OF SAME PLACE.

ASH-BOX FOR STOVES.

SPECIFICATION forming part of Letters Patent No. 472,577, dated April 12, 1892.

Application filed August 21, 1891. Serial No. 403,275. (No model.)

To all whom it may concern:

Be it known that we, LAZARD KAHN and RINEHART CHRIST, of Hamilton, Butler county, Ohio, have invented certain new and useful
5 Improvements in Ash-Boxes for Stoves, of which the following is a specification.

Our improvements will be readily understood from the following description, taken in connection with the accompanying drawings,
10 in which—

Figure 1 is a perspective view of our improved ash-box; Fig. 2, a vertical section of the same, taken in a plane at right angles to the plane of the doorway at the front; and
15 Fig. 3, a vertical section, on a smaller scale, taken in a plane parallel with the door-opening.

In the drawings, A indicates a rectangular box open at the front and formed of cast-iron;
20 B, the bottom thereof; C, the side walls thereof; D, the back thereof; E, margins of the doorway at the front of the box; F, a cross-bar extending across the upper front of the box and integrally cast with the side walls
25 thereof and rigidly uniting those side walls over the door-opening; G, a skirting extending around the box at its top and projecting outwardly and downwardly from the top of the box, the upper portion of this skirting
30 forming an endless continuation of the cross-bar F, integrally cast with the box, and the lower portion of the skirting forming a rib exterior to the box, with its extreme ends joining the side walls of the box at the extreme
35 front of the box and intermediate between the upper and lower margins of the doorway; H, one of the legs which is to support the stove, the leg being secured thereto by having its shank attached against the inner un-
40 der side of the skirting, and J an inward projection at the top of the skirting, forming an annular support at the top of the box to receive the fire-section and grate of the stove. The cross-bar F, integrally formed with the
45 sides of the box, forms a cross-brace for the box at its top and forms the upper margin for the door-opening and forms the support for the front portion of the fire-section of the stove and incidentally forms a pleasing fin-
50 ish in connection with the skirting. This cross-bar also results in the ash-box being a jointless and ash-tight structure at the upper portion of its front.

The skirting in its peculiar arrangement with reference to the annular support J and the legs and the open front of the box gives 55 the best possible bracing support to the integral structure and permits of its construction and practical use without the usual fatal results of breakage due to strains in the cast- 60 ings.

It is found in practice that in attempts to make integral ash-boxes in their older forms the result is much like attempting to cast a circular ring with a discontinuation or gap 65 at one side, the differential shrinkage at the inner and outer peripheries of the ring producing a distorting strain so erratic in its nature that dimensions cannot be counted on and doors or door-jambs cannot be satisfac- 70 torily fitted, and when to such ring a lower wall is added the effect of the strains met by such inelastic lower wall is to crack the casting in cooling or to leave it in such strained condition as to result in cracks in the oper- 75 ation of mounting and use. In our improved construction we have present the characteristic of a gapped ring with the lower wall; but we negative the defects in form by making the cross-bar serve at once as an element mak- 80 ing a portion of the ring continuous past the gap and as a partial upper wall opposite the lower wall at the gap. In practice we have no trouble whatever in always successfully making these castings and of a form present- 85 ing an undistorted door-jamb adapted for the ready mounting of a close-fitting door.

We claim as our invention—

In an ash-box for a stove, a box open at its front and top and provided at its upper front 90 portion with a cross-bar integrally formed with the side walls of the box and forming the upper margin of the open front of the box and provided with a skirting integrally formed with the box, extending outwardly and down- 95 wardly from the top of the box, and terminating below in a rib exterior to the box, with its extremities joining the side walls of the box at its front below said cross-bar.

LAZARD KAHN.
RINEHART CHRIST.

Witnesses:

A. S. HAMMERLY,
IDA BREDE.