

No. 661,258.

Patented Nov. 6, 1900.

P. J. COPPENS.
FIRE POT FOR STOVES.

(Application filed Jan. 19, 1900.)

(No Model.)

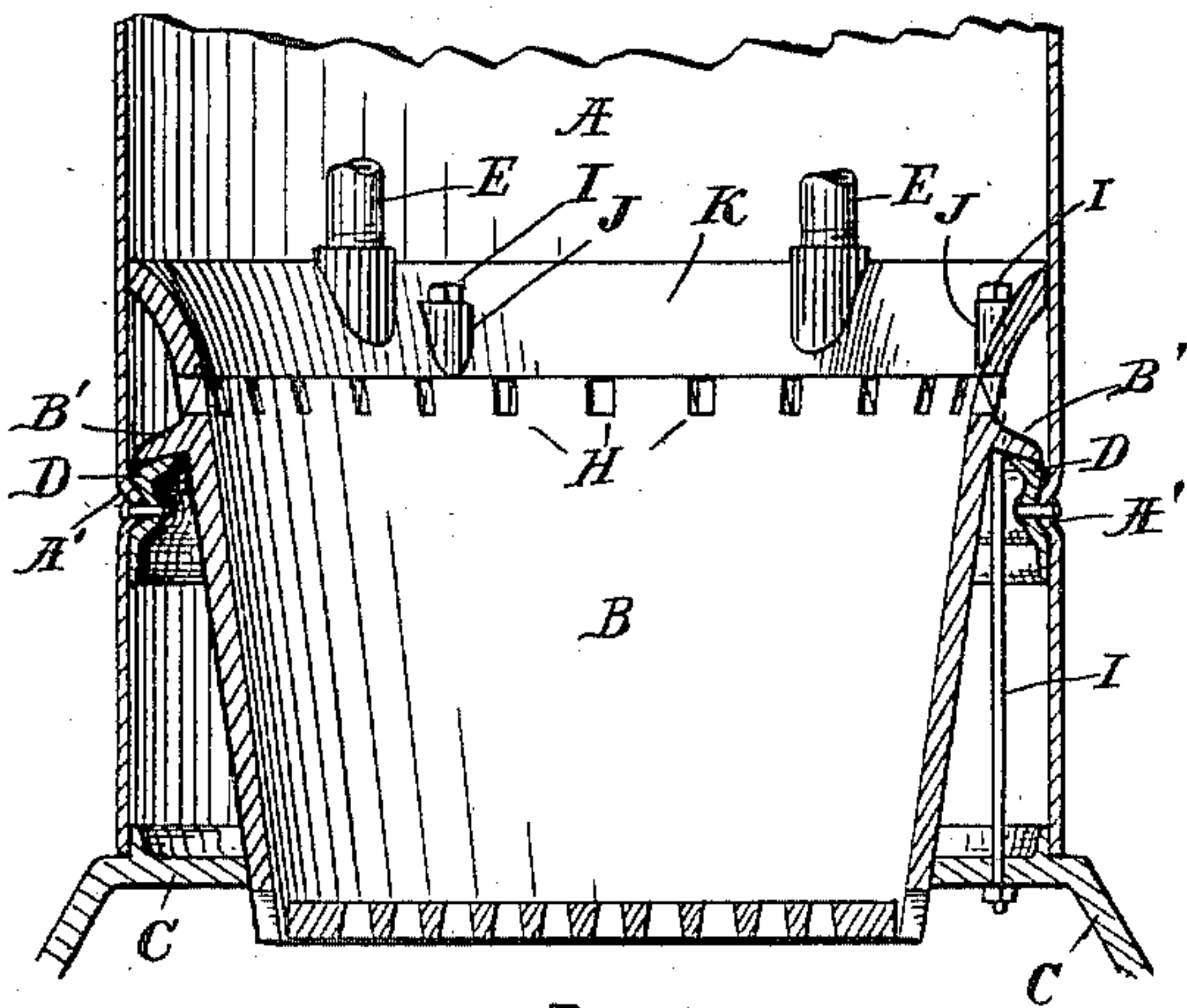


Fig. 1.

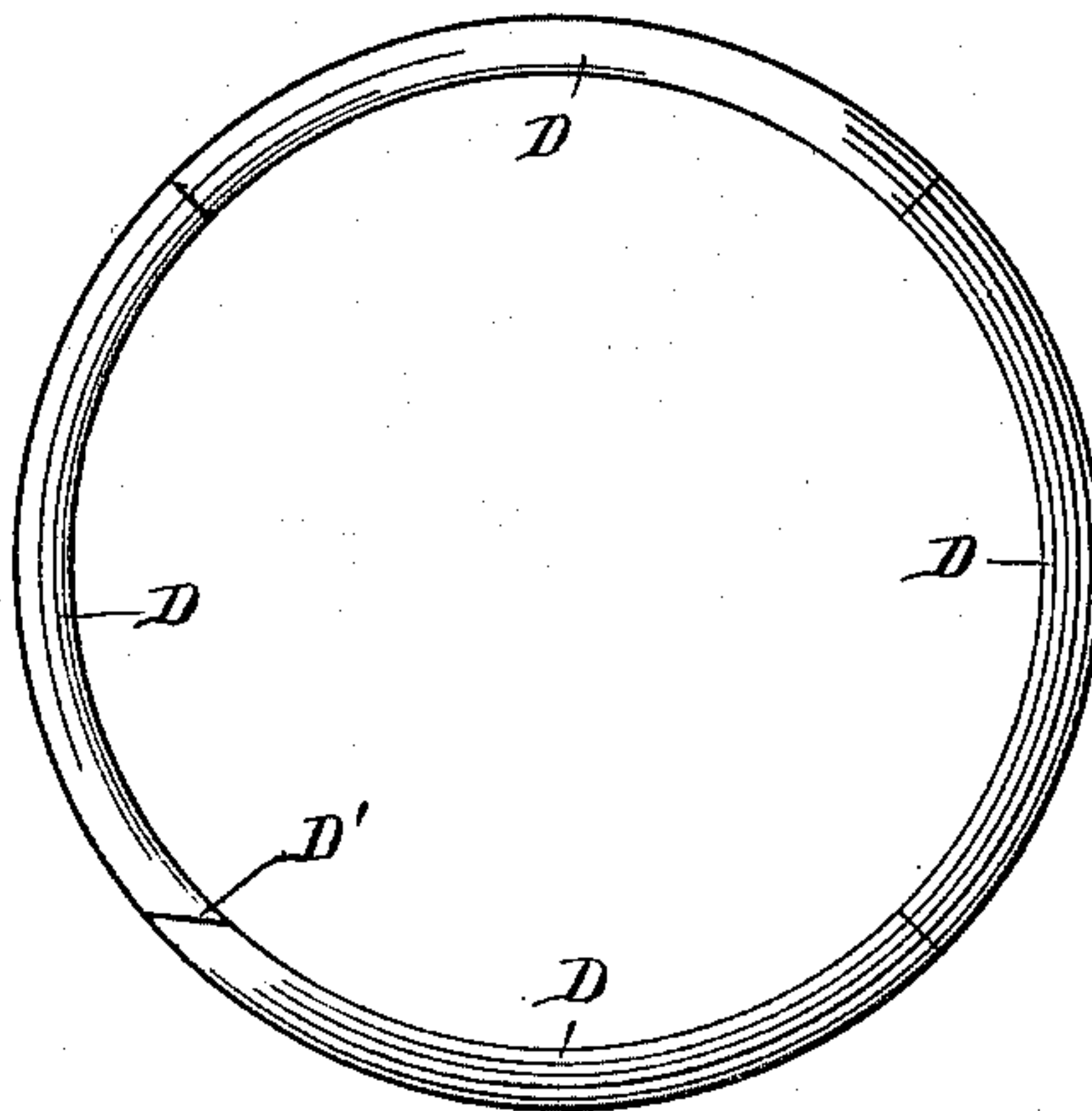


Fig. 3.

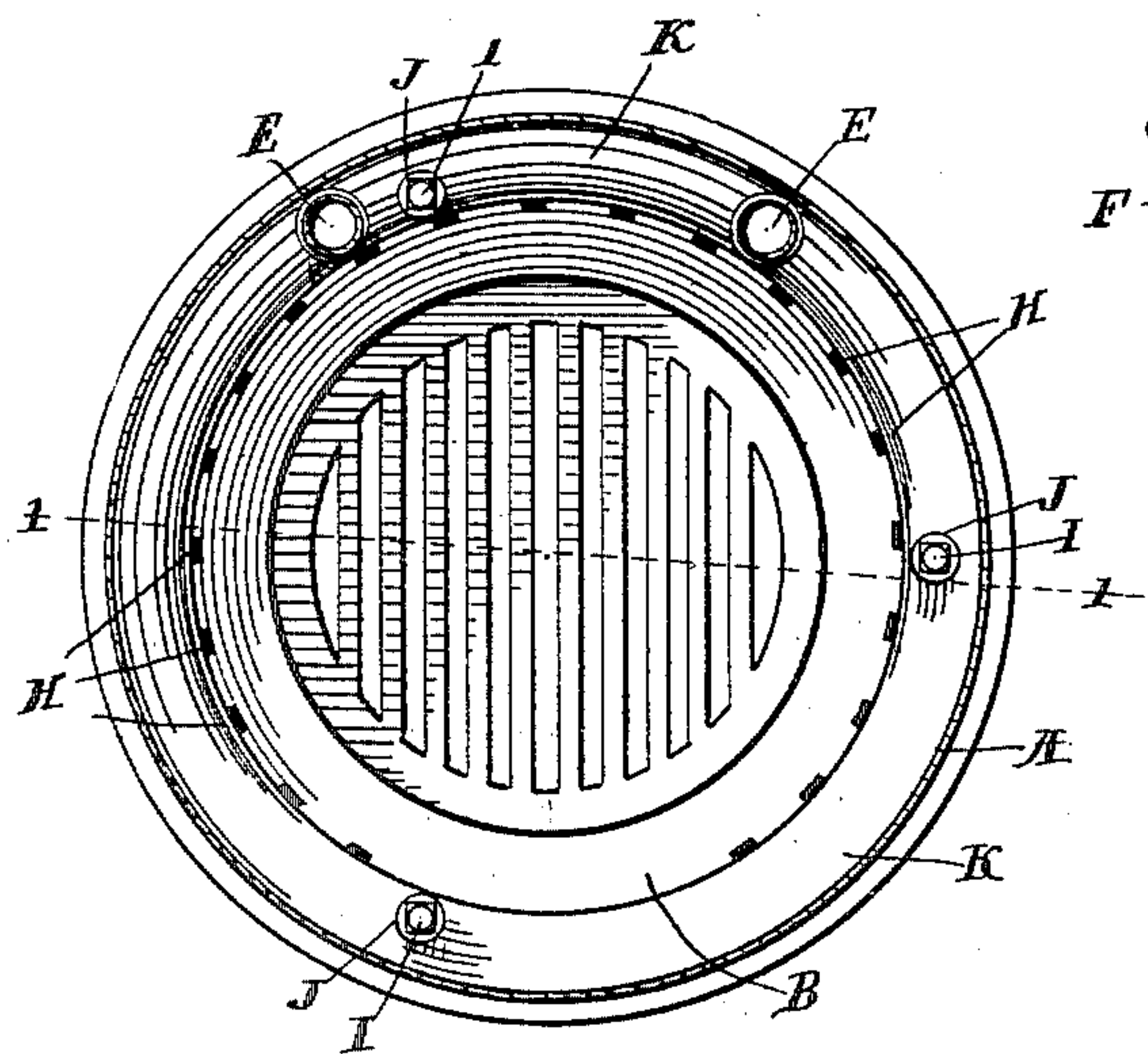


Fig. 2.

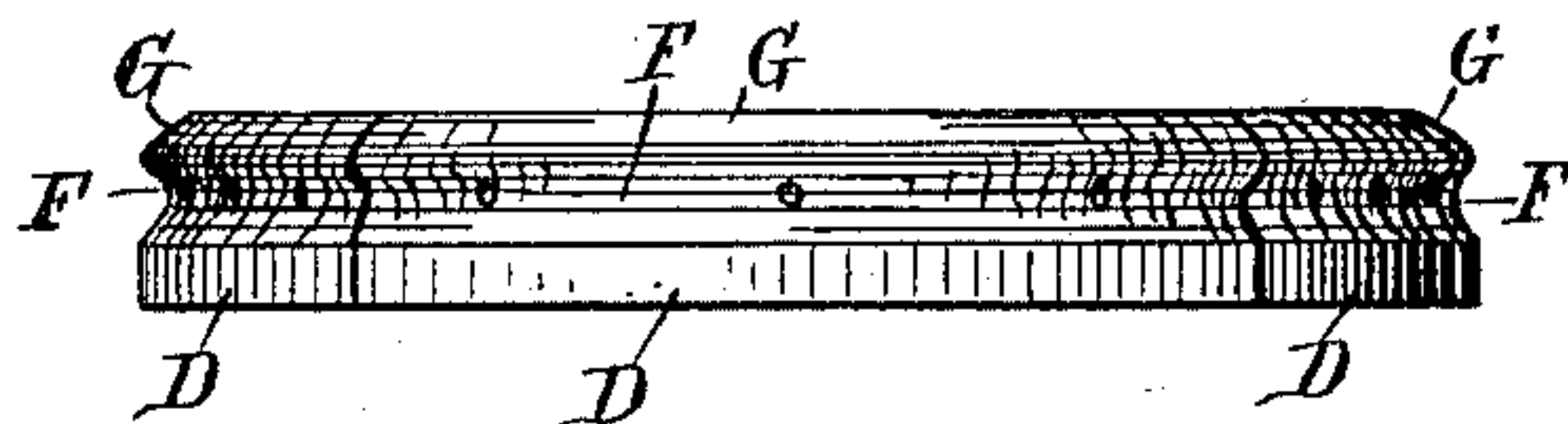


Fig. 4.

WITNESSES:

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UNITED STATES PATENT OFFICE.

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FIRE-POT FOR STOVES.

SPECIFICATION forming part of Letters Patent No. 661,258, dated November 6, 1900.

Application filed January 19, 1900. Serial No. 1,969. (No model.)

To all whom it may concern:

Be it known that I, PETER J. COPPENS, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Fire-Pots for Stoves; 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 appertains to make and use the same.

My invention relates to improvements in fire-pots for stoves, and more particularly to improvements in fire-pots for stoves having plain cylindrical sheet-metal bodies; and the objects of my invention are to provide improved means for supporting the fire-pot within the stove and for securing the same in place therein and to provide the device with certain new and useful features herein-after more fully described, and particularly pointed out in the claims.

My invention consists, essentially, in providing a ring having an inwardly-projecting and upwardly-inclined flange, securing the ring to the inside surface of the cylindrical body of the stove, providing the fire-pot with an outwardly and downwardly projecting flange to engage the ring, and securing the fire-pot in place by means of bolts extending through this flange and down through the base of the stove, whereby the fire-pot is securely held in place and the body of the stove also secured to the base.

It consists in further providing an air-chamber at the top of the fire-pot consisting of a flaring concavo-convex ring resting upon the top of the fire-pot at its lower side and engaging the inner surface of the body of the stove at its upper side and held down upon the fire-pot by means of said bolts, as hereinafter more fully described, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical section of the device embodying my invention, taken on the line 1 1 of Fig. 2; Fig. 2, a plan view of the same, and Figs. 3 and 4 details showing the pot-supporting ring detached.

Like letters refer to like parts in all of the figures.

A represents the body of the stove, having an inwardly-pressed bead A' opposite the fire-pot.

B is the fire-pot, provided near the top with an outwardly and downwardly projecting flange B' and also having a series of openings H in its upper edge.

C is the base of the stove, upon which the body A is supported and having an inwardly-extending flange surrounding and engaging the fire-pot near the bottom thereof.

D is the pot-supporting ring, made in segments for convenience in inserting the same within the body of the stove and also to provide for unequal expansion of the various parts, and having an inwardly and upwardly projecting flange G at the top to engage the flange of the fire-pot and support the same and an annular groove F in its outer surface to engage the bead A' in the body of the stove and secured in place by suitable rivets or bolts.

K is the air-chamber, consisting of an outwardly and upwardly flared concavo-convex ring adapted to rest upon the top of the fire-pot at its lower side and engage the inner surface of the body of the stove at its upper side and provided with suitable bosses J, through which the bolts I extend vertically through the flange B' and the inwardly-projecting flange of the base C.

E E are pipes inserted in the air-chamber K for the purpose of conveying air to the same from any convenient source.

The ring D is made in any convenient number of segments, and one or more of the seams where the segments join extend diagonally across the ring, as shown at D', to enable the last segment to be properly inserted in place when the inwardly-pressed bead A' and the groove F are utilized. These latter, however, may be omitted and the rivets or bolts relied upon to hold the ring with quite satisfactory results; but I prefer the construction as herein shown. By placing suitable cement between the ring D and the body A an air-tight joint is formed, and the flange B' being movable upon the ring D any unequal expansion of the parts will not strain the stove or bolts I. Said bolts also being located wholly outside the fire-pot, they will not be exposed to the action of the fire. Any dust or ashes accumulating in the angle between the ring D and the body of the stove will also tend to prevent any leakage of air between the same.

I thus secure a very effective and durable support for the fire-pot, especially adapted to be attached to a sheet-iron stove and also forming a portion of an air-chamber surrounding the top of the fire-pot for distributing air to the fire.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

10 1. In a stove the combination of a ring having an inwardly and upwardly projecting flange, a fire-pot having an outwardly and downwardly projecting flange engaging the flange on the ring, a continuous sheet-metal
15 body extending above and below the ring, and means for securing the ring to the inner surface of the body, substantially as described.

2. The combination of a sheet-metal body having an inwardly-pressed bead, a ring secured to the body and having one or more diagonal seams D' and a concave channel op-

posite the bead, and also having an inwardly-projecting flange, and a fire-pot having an outwardly-projecting flange to engage the flange on the ring and supporting the fire-pot, substantially as described. 25

3. The combination of a sheet-metal body having an inwardly-pressed bead, a ring secured to the body and having a concave channel opposite the bead and an inwardly and upwardly projecting flange; and a fire-pot having an outwardly and downwardly projecting flange engaging the flange on the ring and slidable thereon, substantially as described. 30

In testimony whereof I affix my signature in presence of two witnesses. 35

PETER J. COPPENS.

Witnesses:

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