

(No Model.)

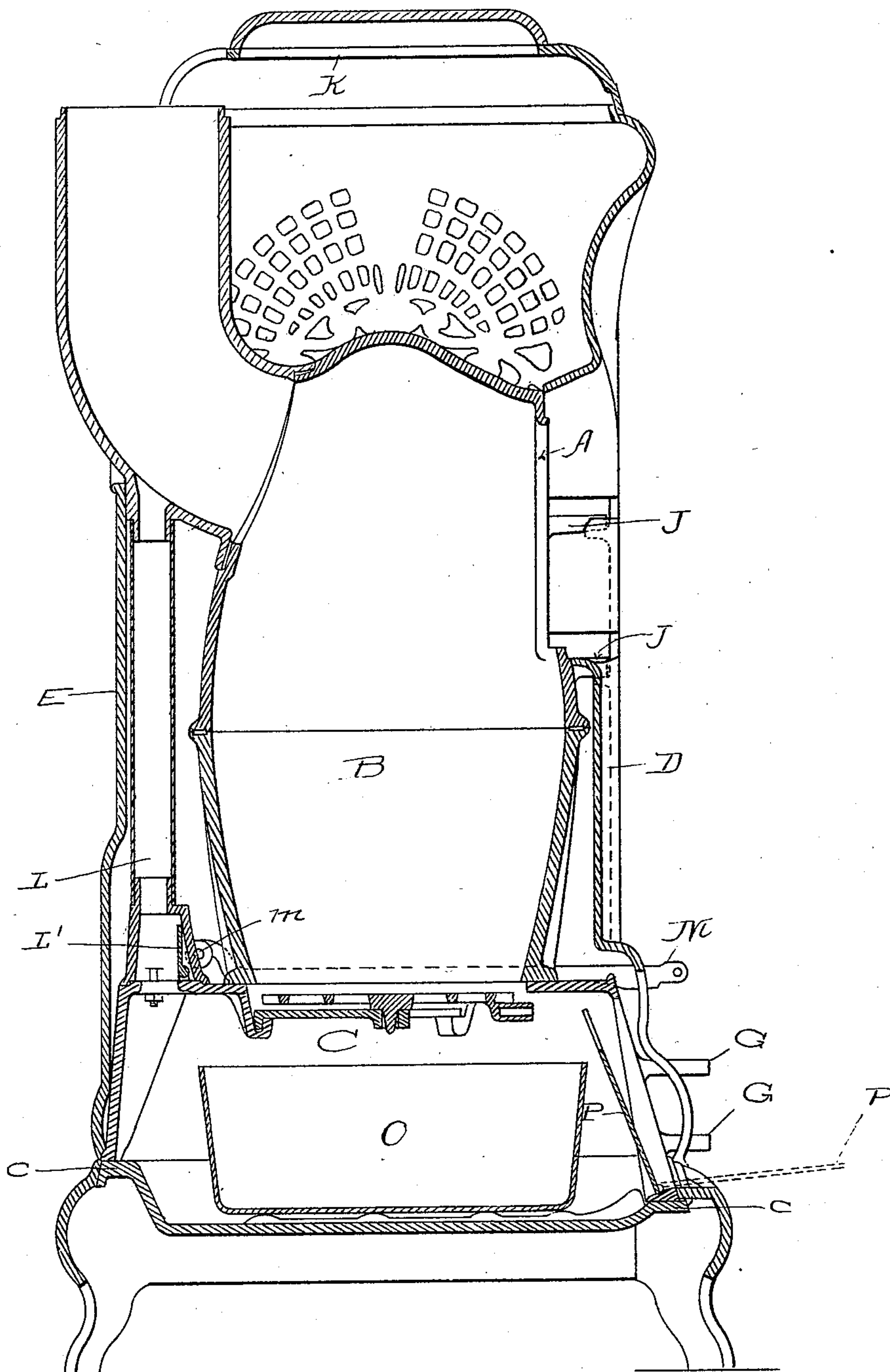
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W. N. MOORE.  
HEATING STOVE.

No. 562,014.

Patented June 16, 1896.

FIG. 1.



WITNESSES:

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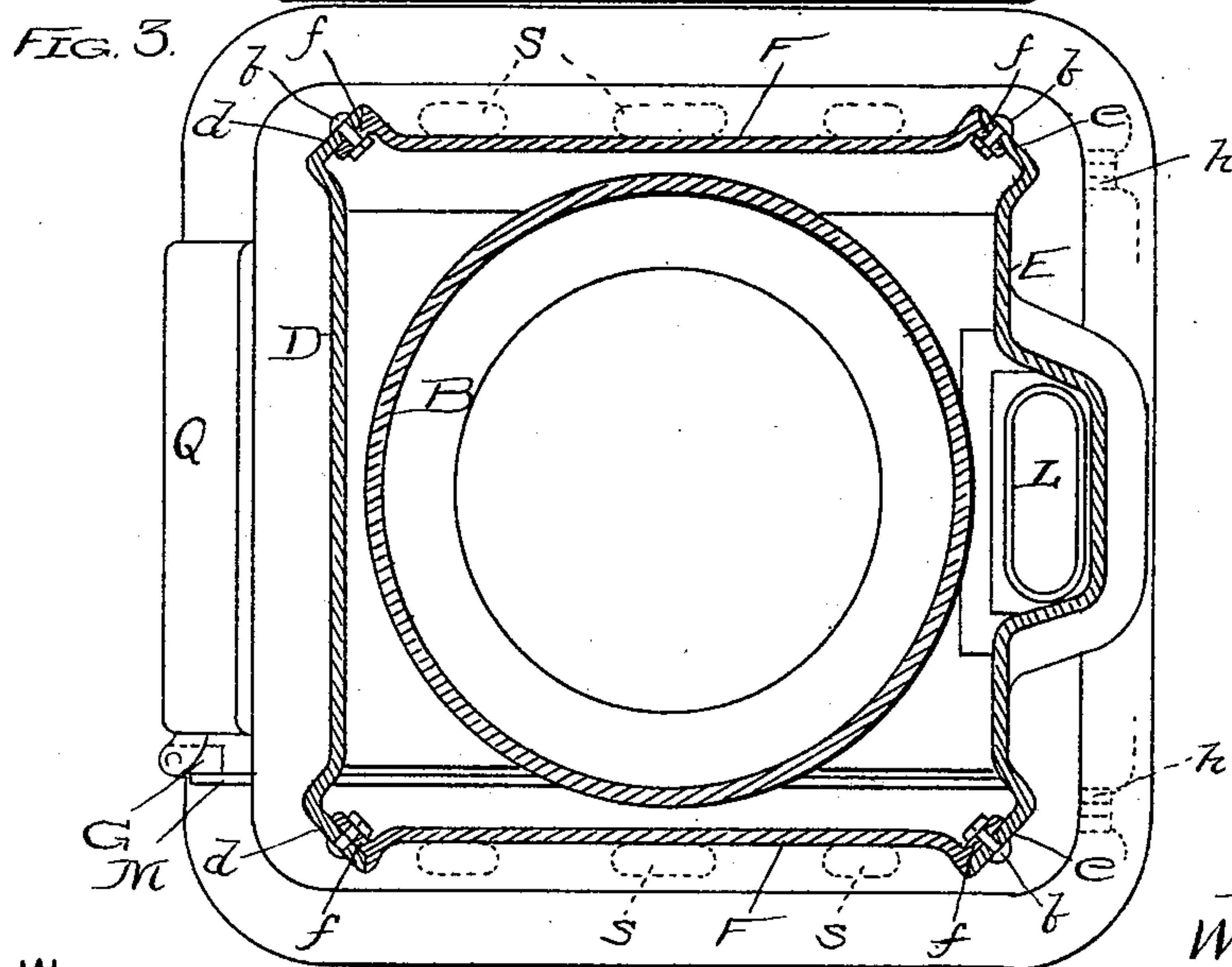
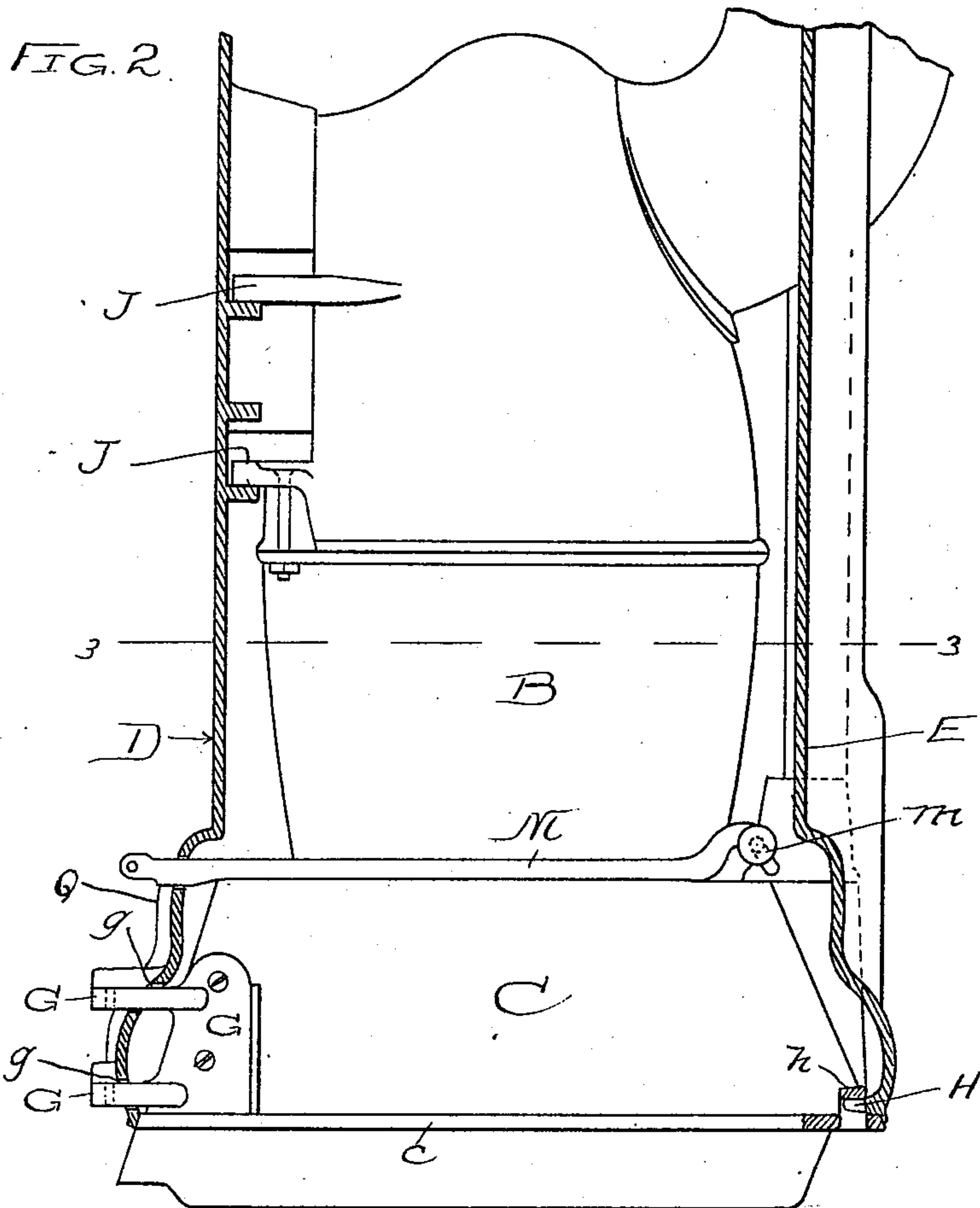
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2 Sheets—Sheet 2.

W. N. MOORE.  
HEATING STOVE.

No. 562,014.

Patented June 16, 1896.



WITNESSES:  
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INVENTOR:  
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# UNITED STATES PATENT OFFICE.

WILLIAM N. MOORE, OF JOLIET, ILLINOIS.

## HEATING-STOVE.

SPECIFICATION forming part of Letters Patent No. 562,014, dated June 16, 1896.

Application filed April 22, 1895. Serial No. 546,788. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM N. MOORE, a citizen of the United States, residing in Joliet, in the county of Will and State of Illinois, have invented a new and useful Improvement in Heating-Stoves, of which the following is a specification.

This invention relates to the construction of heating-stoves, and is mainly applicable to that class of ornamental or parlor stoves in which the dome and fire-pot, forming the stove proper, are surrounded by an ornamental four-sided casing which is readily detachable and removable from the stove.

The object of the invention is to simplify and improve the construction and operation of such stoves and to render them easy to set up and repair, without detracting from their efficiency or life of service.

The invention consists in the novel features and novel combinations of parts hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a partial central vertical section of my improved stove. Fig. 2 is a similar section taken in a plane outside the dome and fire-pot. Fig. 3 is a horizontal section on the line 3 3 of Fig. 2.

In said drawings, A represents the dome, B the fire-pot, and C the ash-pit, the latter having a bottom flange *c*, adapted to give support to the outer casing. This casing is made of cast metal and in four parts—a front section D, a rear section E, and two side sections F and top K. The front and rear sections are provided with diagonally-extending flanges *d* and *e* at their vertical edges, and the sides are provided with flanges *f* at their corresponding edges, which are adapted to fit snugly against the flanges *d* and *e* and be secured thereto by bolts *b*, passing through both. This form of joint avoids any danger of separation of the parts or the formation of an opening or crack between them, as the lapping of the flanges one upon the other will prevent any such result.

In order to secure the casing to the base, I rely upon the following means: The front section D of the casing is provided with openings *g g* to receive the ears G G, attached to the plate G' and secured by screws or rivets to

the ash-pit. The ears are pierced to receive the pivot of the ash-pit door and to support said door in the customary manner, and as they are fixed in their position by their attachment to the ash-pit they are adapted by their engagement in the openings *g* to hold the front of the casing firmly down and against movement upon the base. The rear plate or section is provided with feet or projections H, which are adapted to be forced into or under the upstanding hooks *h*, formed upon the base of the ash-pit. With this construction the casing is very easily applied to or removed from the stove. Before application the front and side sections are bolted together by the flange-bolts, and they are slid into position upon the stove, this act forcing the ears G into the openings *g*. The rear section is then placed in position with its feet under hooks *h* and bolted at its vertical edges to the side sections, thus completing the attachment of the casing to the stove.

To remove the casing, the top K may or may not be taken off. The rear section is then unbolted from the side sections, and the other three sections may then be withdrawn from the stove by a sliding movement without any detaching one from the other of those sections.

The ears J, to which the feed-door is hinged and which project from the dome A, may also engage under corresponding inward projections of the front section D and assist in holding the casing to the stove; but as this part of the stove is subject to extreme heat I do not rely upon it, because of the changes in the relative positions of the engaging parts which will be produced by the consequent expansion.

I also provide my stove with a back flue leading from the ash-pit into the smoke-pipe and serving to draw out the lighter parts of the ashes while the stove is being shaken or cleaned. This flue may also be availed of as a check to the fire, as it offers the air entering at the ash-pit a more direct and less obstructed exit than that existing through the grate and body of coal thereon, and will act to divert a large portion of the air from the fire. It is shown at L and is provided with a valve L', whereby it may be opened and closed at pleasure. The axis of the valve is



bent at one end to form a crank *m*, and this crank is operated by a lever *M*, extending to the front of the stove and projecting through the casing, as shown.

5 In front of the ash-pan, which appears at *O*, is a guard *P*, adapted to catch and prevent the escape at the door-opening of any ashes which may fall out or over the front edge of the pan. This guard *P* is hinged at its lower  
10 edge, so that before the pan is taken out the guard may be swung over to the horizontal position indicated in broken lines at Fig. 1. It extends when in the vertical position to a plane above that of the top of the pan, in  
15 order that it may effectually shut off all danger of the ashes getting into the space between the guard and the door, thus keeping them away from the door-opening and preventing them from falling out on the carpet or floor  
20 when the door is opened.

The ash-pit door is shown at *Q*.

The flange *c* of the ash-pit is provided with side openings *s* to admit air from below the ash-pit to the space between the sides of the  
25 pit and the ornamental casing.

I claim—

1. In a heating-stove of the kind herein specified, the dome, the fire-pot and the ash-pit, the latter having a forward projection  
30 such as *G* adapted to engage the casing, in combination with a removable casing extending down to the bottom of the ash-pit and having an opening to receive said projection, substantially as specified.

35 2. In a heating-stove of the kind herein specified, the dome, the fire-pot and the ash-pit, the latter having a bottom flange adapted to sustain the outer casing and also having a forward projection, such as *G*, adapted to  
40 engage the casing, in combination with a removable casing extending down to the bottom of the ash-pit and having an opening to receive said projection, substantially as specified.

45 3. In a heating-stove of the kind herein specified, the dome, the fire-pot and the ash-pit, the latter having a forward projection, such as *G*, adapted to engage the casing, and

also adapted to serve as hinging-points for the ash-pit door, in combination with a re- 50 movable casing extending down to the bottom of the ash-pit and having an opening to receive said projection, and a door hinged to said projection, substantially as specified.

4. In a heating-stove of the kind herein 55 specified, the dome, the fire-pot and the ash-pit, the latter having a forward projection, such as *G*, adapted to engage the casing, in combination with a casing the front and sides whereof are adapted to be secured together 60 before positioning upon the stove, and the front section whereof is provided with an opening adapted to receive said projection, substantially as specified.

5. In a heating-stove of the kind herein 65 specified, the dome, the fire-pot and the ash-pit, the latter having a forward projection, such as *G*, adapted to engage the casing, in combination with a casing extending to the bottom of the ash-pit and having a front sec- 70 tion separable from the rear section and provided with an opening to receive said projection, and the rear section also having means whereby it may be secured to the ash-pit, sub- 75 stantially as specified.

6. The combination with the stove com- posed of an ash-pit, a fire-pot and a dome, of a removable casing extending to the base of the ash-pit, and made in sections adapted to be secured together, projections *G* for attach- 80 ing the front section to the ash-pit, and projections *H* and hooks *h* for attaching the rear section to the ash-pit, substantially as specified.

7. The stove of the kind herein shown, hav- 85 ing a back flue *L*, in combination with a removable casing consisting of a front section *D*, a rear section *E* conforming to said back flue, and side sections *F*, said sections being detachably secured together, substantially as 90 specified.

WILLIAM N. MOORE.

Witnesses:

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