

(No Model.)

E. COPLAND.
HEATING ATTACHMENT FOR GAS BURNERS.

No. 516,153.

Patented Mar. 6, 1894.

FIG. 1.

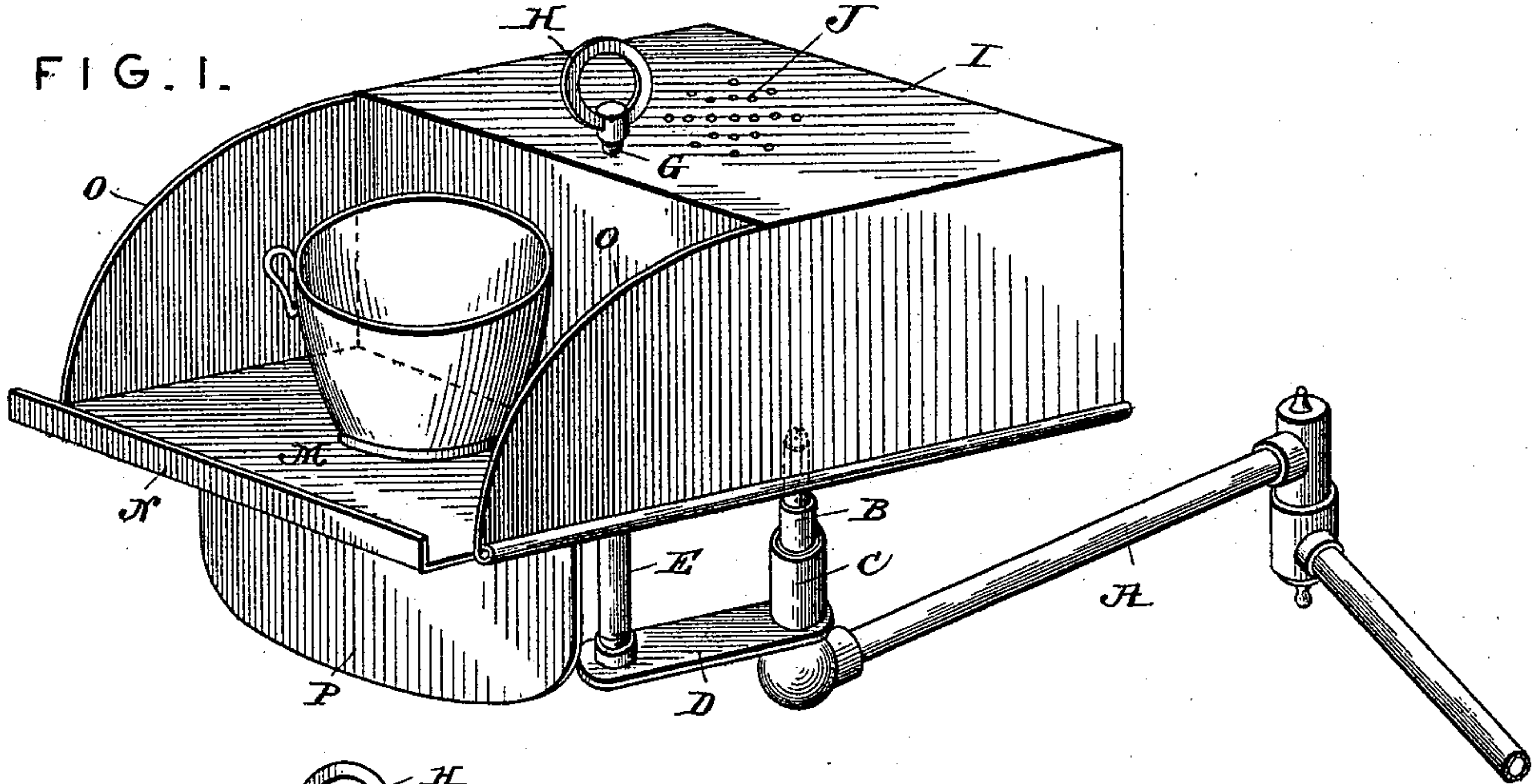


FIG. 2.

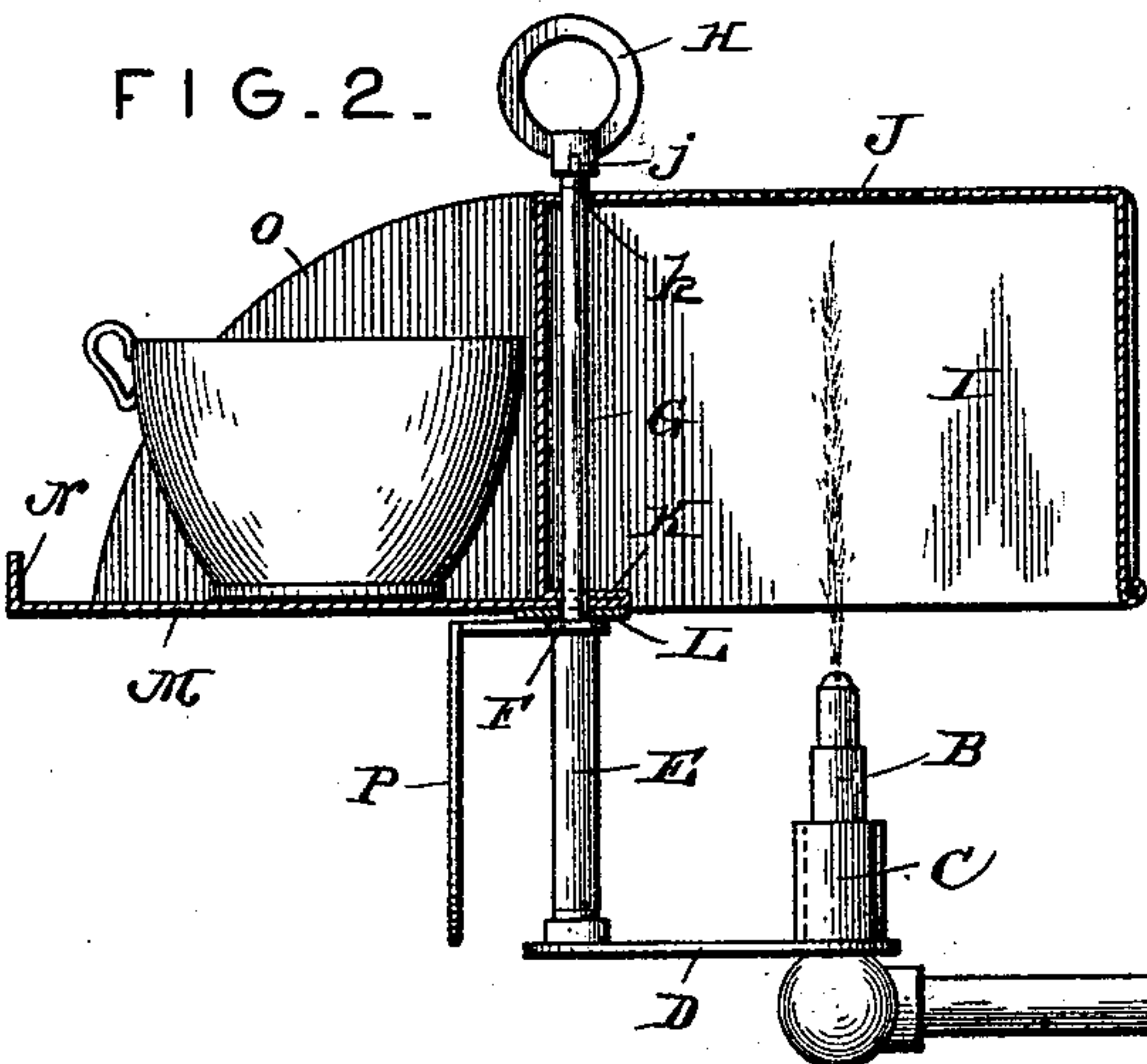


FIG. 3.

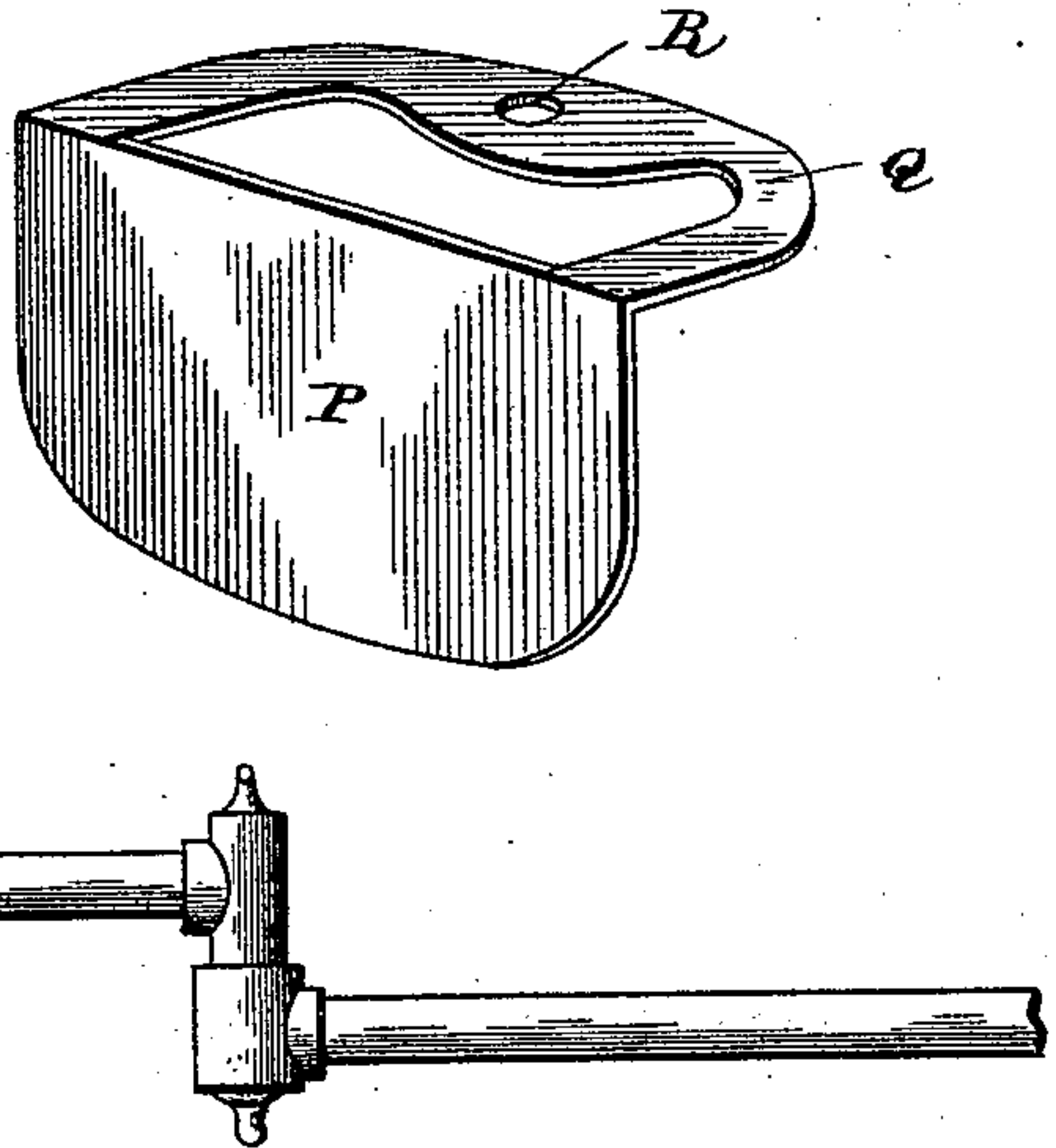
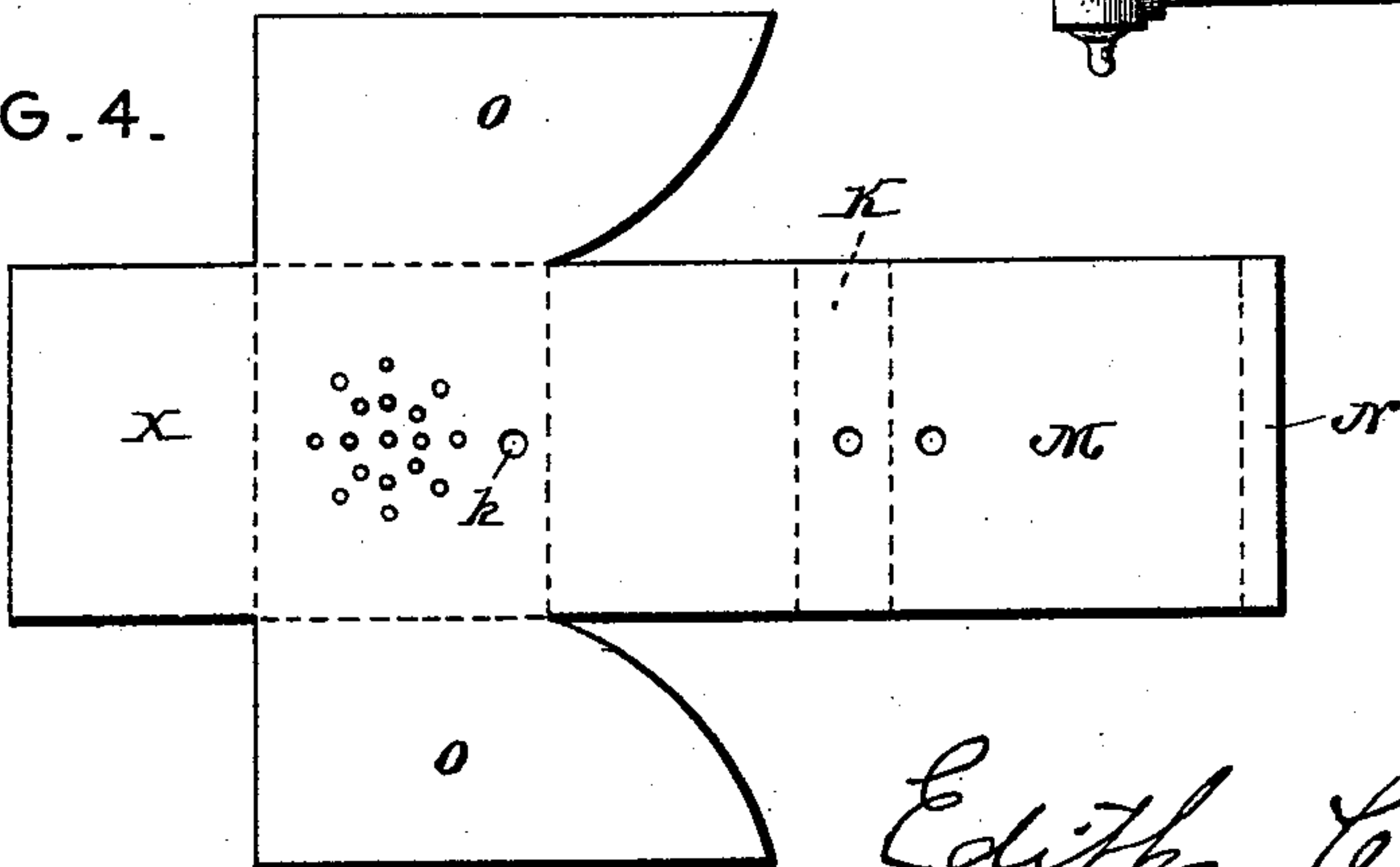


FIG. 4.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

EDITH COPLAND, OF WASHINGTON, DISTRICT OF COLUMBIA.

HEATING ATTACHMENT FOR GAS-BURNERS.

SPECIFICATION forming part of Letters Patent No. 516,153, dated March 6, 1894.

Application filed December 30, 1893. Serial No. 495,165. (No model.)

To all whom it may concern:

Be it known that I, EDITH COPLAND, a citizen of the United States, residing at Washington, in the District of Columbia, have invented a new and useful Heating Attachment for Gas-Burners, of which the following is a specification.

This invention relates to heating attachments for gas burners; and it has for its object to provide an improved attachment of this character which may be easily and quickly attached to any ordinary gas burner to provide means for heating up a room to a comfortable degree, and which may also be used to heat water, milk or other articles which it may be desired to quickly and conveniently warm up or heat.

To this end the main and primary object of the present invention is to construct a simple, durable and inexpensive heating attachment which, while providing an efficient heating drum for properly heating up a room or any article desired, at the same time may be easily adjusted over and away from the flame, and when in use will neither conceal nor diminish the light given by the flame from the burner supported by the gas bracket.

With these and other objects in view which will readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts hereinafter more fully described, illustrated and claimed.

In the drawings:—Figure 1 is a perspective view of a heating attachment for gas burners arranged in position on the burner of a gas fixture. Fig. 2 is a vertical central sectional view thereof. Fig. 3 is a detail in perspective of the reflector attachment. Fig. 4 is a plan view of the sheet metal blank, out of which the heater proper is made.

Referring to the accompanying drawings, A represents an ordinary gas bracket or fixture carrying the usual burner B, and in the present invention the burner B, of the gas fixture is adapted to removably receive the sleeve C, at the inner end of the swinging attachment arm D. The sleeve at the inner end of the attachment arm D, loosely fits over the burner to support the entire heating attachment in a position, while at the same time

allowing the same to be swung to either side or out of the way as convenience may require, and arising from the outer swinging end of the attachment arm D, is the upright supporting post E, provided with a shoulder F, above which is extended a reduced spindle portion G, having a threaded upper end g, to removably receive the ring nut H, which holds in position on the reduced spindle portion G, the revoluble heating box I. The revoluble heating box I, is stamped from a single blank of sheet metal X, shown in plan in Fig. 4 of the drawings, and this heating box I is inclosed at the sides and top and open at the bottom so that when placed directly above the burner B, the heat from the flame will pass directly into the box and cause the same to be heated up to a considerable degree, whereby the radiation will heat up a room or any article, and the top of the heating box is provided with heat openings J, to admit of the escape of surplus heat and other products of combustion.

The heating box I, or at least the blank X, which is shaped as shown, is provided with the lower perforated bearing flange K, aligned with an opening k, in the top of the box to engage over the spindle G, to form a pivotal support for the box, and the perforated bearing flange K, rests on a bearing washer L, fitted on the spindle G, and resting upon the shoulder F, at the base or lower end of said spindle. From one lower side of the heating box I, is extended outwardly a horizontal supporting shelf M, upon which is placed the articles to be heated, and at the outer end of the horizontal supporting shelf M, a retaining flange N, is turned up therefrom to prevent the articles from being accidentally displaced from the shelf, while opposite side flanges O, are extended from opposite sides of the heating box proper, and project above the opposite side edges of the shelf N, to confine the articles in the space there-above, as well as to serve to confine the heat which is radiated into the space between such side flanges. From the above it will be apparent that when the heating box is properly positioned over the burner D, as shown in Fig. 2 of the drawings, the heat which accumulates into the box will be radiated into the space

above the supporting shelf M, and thereby properly heat articles placed thereon, and by moving or turning the box on its pivot, the same may be swung around from over the burner to allow the articles to cool, or to place the attachment entirely out of the way. By removing the ring nut H, the heating box may be separated from the supporting post and spindle, or the entire attachment may be separated from the gas burner.

With the attachment arranged as illustrated in the drawings, the light given by the flame from the burner will not be appreciably diminished, but in order to obviate the loss of light, I employ a reflector plate P, in connection with the attachment. The reflector plate may be of any highly polished reflecting material and is provided at its upper end with an off-standing attaching flange Q, which holds the plate P, in a vertical position at one side of the post E, and is provided with a perforation R, fitting the spindle G, to dispose the flange Q, on the shoulder F, upon which shoulder it is held properly in position by the heating box turning thereover.

From the above it will be obvious that the herein described heating attachment possesses many points of advantage which will readily suggest themselves to those acquainted with similar devices, and I will have it understood that changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, and at this point it may be well to further emphasize the fact that the herein-described heating attachment and particularly the heating box part I, provides a heating drum which is particularly adapted for heating up bath and other small rooms to a comfortable degree of temperature, while at the same time being capable for such minor uses as heating small articles.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. In a heating attachment for gas burners, a bracket adapted to be removably attached to a gas burner, and a heating box revolubly mounted on said bracket and having an off-standing supporting shelf, substantially as set forth.

2. In a heating attachment for gas burners, the combination of a bracket loosely and detachably mounted on a gas burner, and a heating box revolubly mounted on said bracket and provided with an off-standing supporting shelf, and side shelf - flanges inclosing the

space above said shelf, substantially as set forth.

3. In a heating attachment for gas burners, the combination with an ordinary gas fixture burner; of a swinging supporting bracket loosely fitted onto said burner, a side and top-inclosed heating box pivotally and removably mounted on said brackets and provided with top heat openings, an off-standing supporting shelf having a retaining flange at its outer edge, and opposite side flanges, substantially as set forth.

4. In a device of the class described, the combination with a supporting bracket adapted to be fitted onto a gas burner; of a heating box made from a single blank of sheet metal and provided with a supporting shelf for articles to be heated, substantially as set forth.

5. In a heating attachment for gas burners, the combination of an attachment arm adapted to be loosely fitted onto a gas burner and provided with an upright supporting post, and a single-blank heating box provided with a supporting shelf, a top opening, and a lower perforated bearing flange aligned with said top opening to loosely fit over said supporting post, substantially as set forth.

6. In a heating attachment for gas burners, the combination of the attachment arm having a sleeve at one end adapted to fit a gas burner, a shouldered supporting post arising from said arm and having a reduced spindle portion beyond its shoulder, a heater revolubly and detachably fitted onto said spindle, and a reflector attachment detachably fitted onto said spindle beneath said heater, substantially as set forth.

7. The combination with a heating attachment for gas burners having a supporting post; of a reflector plate having a perforated attachment flange detachably fitted onto the supporting post of said attachment, substantially as set forth.

8. In a heating attachment for gas burners, the combination with a supporting bracket adapted to be attached to a gas burner; of a revoluble open bottom heating box or drum mounted on said bracket, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

EDITH COPLAND.

Witnesses:

JOHN H. SIGGERS,
E. G. SIGGERS.