W. E. JORDAN.

HOT PLATE.

APPLICATION FILED FEB. 25, 1908.

930,293. Patented Aug. 3, 1909.

Fig. 1.

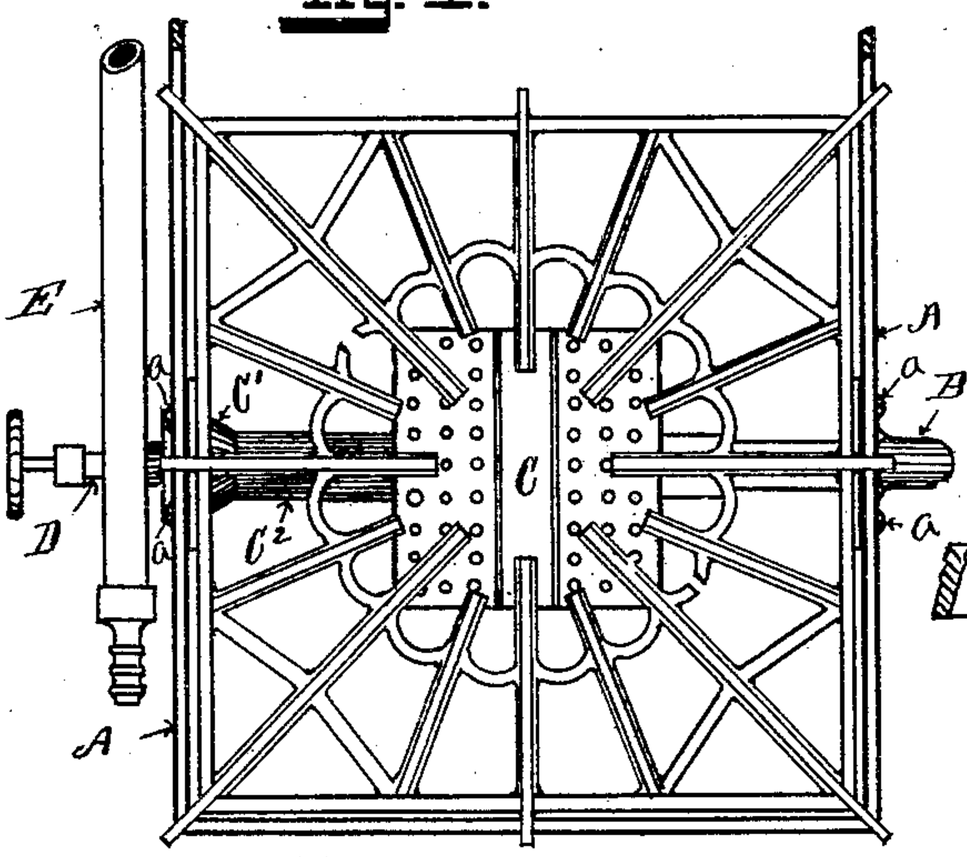


Fig. 2.

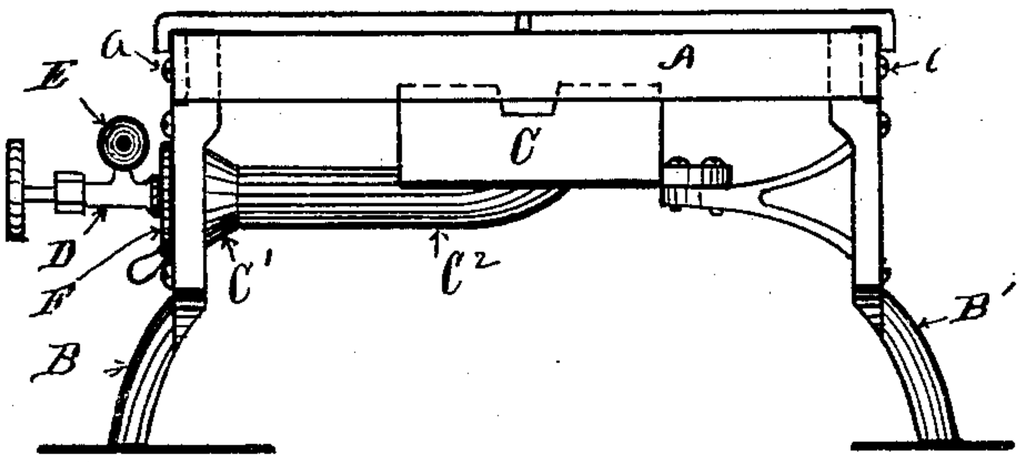


Fig. 3.

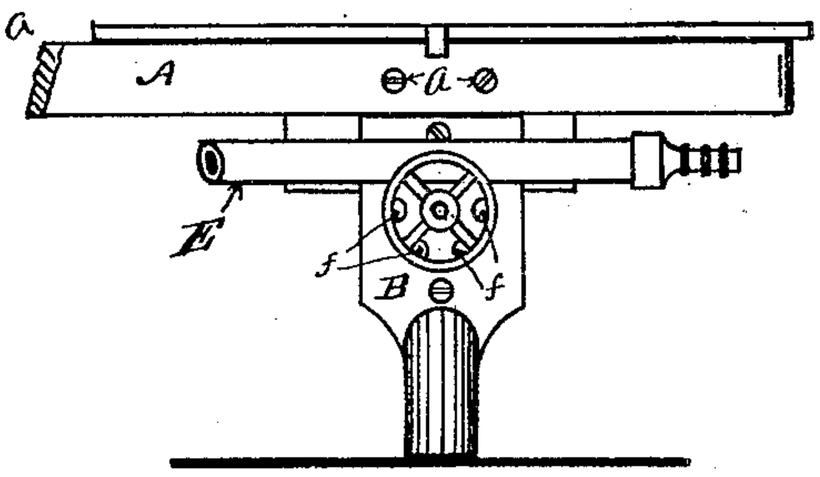


Fig. 7.

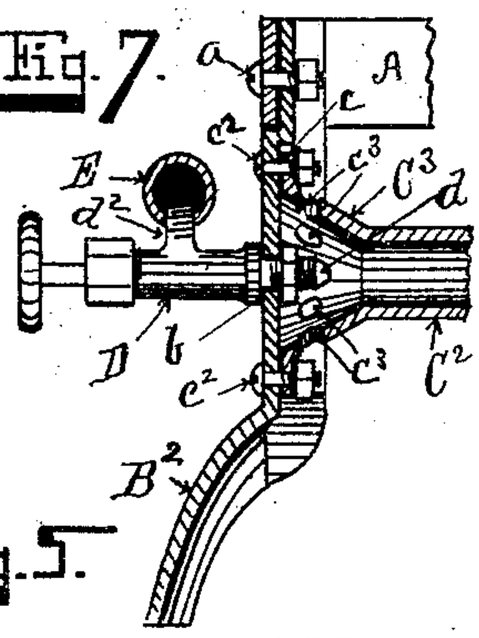


Fig. 4.

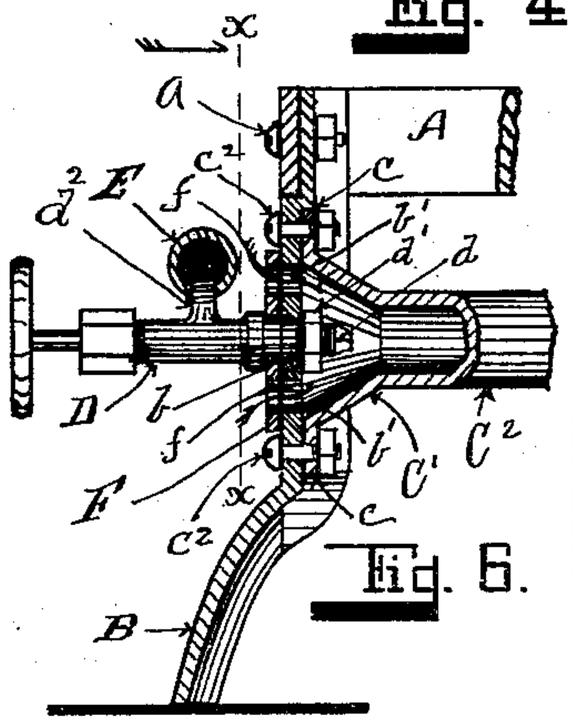


Fig. 5.

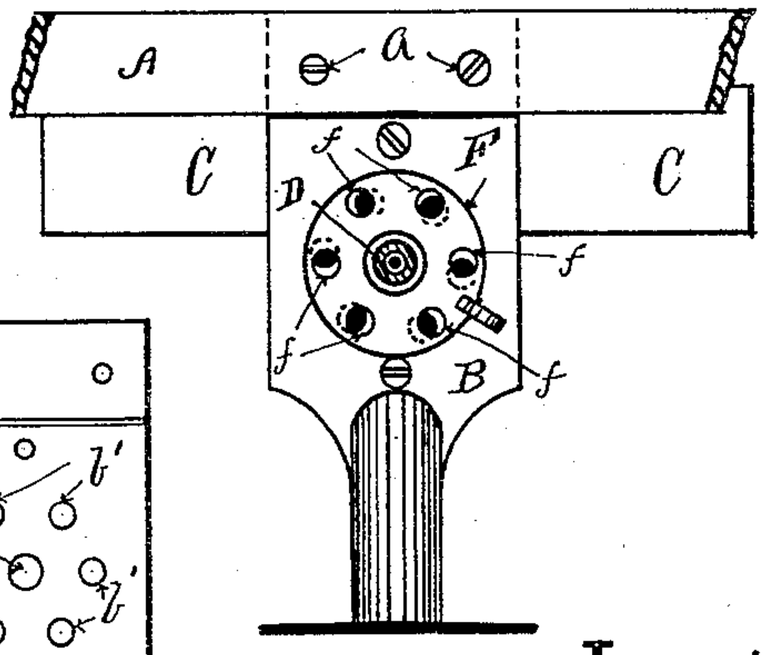
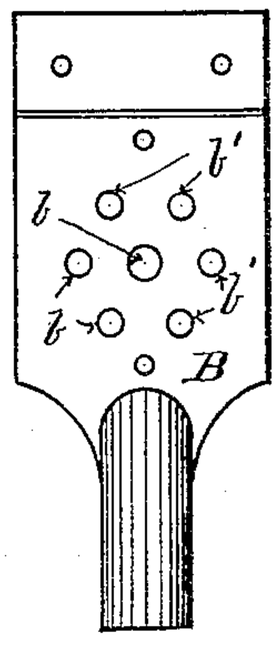


Fig. 6.



Witnesses.

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UNITED STATES PATENT OFFICE.

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HOT-PLATE.

No. 930,293. Specification of Letters Patent. Patented Aug. 3, 1909.

Application filed February 25, 1908. Serial No. 417,680.

To all whom it may concern:

Be it known that I, WESLEY E. JORDAN, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Hot-Plates; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, forming part of this specification.

My invention relates to that type of gas-fuel stoves commonly known as hot-plates.

In gas-fuel burners, gas and air mixers are used to mix a sufficient quantity of air with the gas supplied to the stove so that a proper combustion of the gas is obtained to produce the maximum of heat therefrom; this is usually accomplished by inserting centrally into a shell a gas-supply pipe having a small jet-opening which operates to draw in around it through the open end of the conical shell, or through holes in said shell the necessary air, which is then carried on by the force of the gas jet, intermixed with the gas, into the burner.

The features of my invention are hereinafter fully set forth and described and illustrated in the accompanying drawings in which:

Figure 1 is a top or plan view of a section of a hot-plate embodying my invention. Fig. 2 is an end view in elevation of the same. Fig. 3 is a side view in elevation of the same. Fig. 4 is a detail showing an enlarged vertical section through the leg and mixer. Fig. 5 is an enlarged front view partially in elevation on the line *x*—*x* in Fig. 4. Fig. 6 is a front view in elevation of one of the front legs of my improved hot-plate. Fig. 7 is an enlarged sectional view of a modified construction of my invention.

In these drawings illustrating my invention A is the body of a hot-plate; B, B′, the front and rear legs thereof; C the burner; C′ the mixer shell; and C^2 the pipe leading from the burner C to the mixer shell C′. All of which parts are common to hot-plates, except as to the modifications in the construction of the front leg B hereinafter explained.

The legs B and B′, I preferably make of pressed steel, so as to be secured to the body A by means of bolts *a a* in the usual manner, and in the flat upper portion of the leg B I make a central opening *b* in which the gas-jet pipe *d* forming a portion of and integral with the valve mechanism D is secured by means of a nut *d′*, and upon a nipple d^2 extending upwardly from the valve mechanism D, I secure the gas supply pipe E, so that the valve mechanism D, the gas-jet pipe *d*, and the gas-supply pipe E are all secured to and supported by the leg B. Around the opening *b*, I preferably make through the leg B a series of air-inlet openings *b′* to the inside of the mixer shell C′. This mixer shell C′ I preferably make cone-shaped and secure it to the back of the leg B by means of ears *c c*, bolts c^2 c^2 passing therethrough and through the leg B, so as to inclose the holes *b′* in the leg B, and also the gas-jet pipe *d*. The mixer shell is connected to the pipe C^2 leading to the burner C and operates as a support therefor.

Upon the gas-jet pipe *d*, I preferably mount a cut-off valve plate F, which contacts with the outer face of the leg B and is provided with holes *f* therein registering with the holes *b′* in the leg B, so that by its rotation the holes *b′* can be opened or closed as desired.

In Fig. 7 I show a modified construction of my invention. In this construction the leg B^2 has a central opening *b* in which the gas-jet pipe *d* is secured, but has no air-inlet openings therein around the opening for the gas-jet pipe. In lieu of these openings I make a series of air-inlet openings c^3 in the mixer shell C^3 through which air is drawn by the jet of gas issuing from the gas-jet pipe *d*, and by this modified construction I secure substantially the same advantages of construction and operation as in the structure first hereinbefore described.

From the foregoing description, the construction and operation of my improved hot-plate mechanism is believed to be so obvious that further description thereof is unnecessary. Therefore

Having fully described my invention so as to enable others to construct and use the same, what I claim as new and desire to secure by Letters-Patent is:

1. The combination in a hot-plate, of a leg comprising an upper portion adapted to be secured against the depending flange of a hot-plate, an intermediate portion having open-

ings therethrough arranged about a central opening, and a foot portion depending from said intermediate portion, substantially as set forth.

2. A hot-plate leg, having a vertical upper portion provided with a central opening around which are arranged a plurality of openings spaced therefrom and from each other, the central opening being adapted to receive a fluid fuel burner, the upper portion of said leg being provided with a shoulder adapted to abut the edge of the depending flange of the hot-plate to which said leg is adapted to be secured, substantially as set forth.

3. The combination in a hot-plate leg adapted to be secured to the depending flange of a hot-plate, of a flat portion having a series of openings therethrough grouped about a central opening, and a half round section curved outward and downward from the lower part of the flat portion of the leg, and a hollow shell having a central opening therein secured to the back of the flat portion so as to embrace the openings therethrough, substantially as set forth.

4. The combination in a hot-plate of a hot-plate body, a fluid fuel burner secured therein, a leg comprising an upper portion adapted to be secured against the depending flange of said hot-plate body, an intermediate portion having a central opening therethrough and a plurality of openings arranged around said central opening and a foot portion depending from said intermediate portion with a fluid fuel pipe secured in said central opening in the intermediate portion of said leg, and a duct inclosing said openings through said intermediate portion of said leg leading from the rear-side thereof to said fluid fuel burner in the body of said hot plate, substantially as set forth.

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

WESLEY E. JORDAN.

Witnesses:
H. M. STURGEON,
G. J. MEAD.