

No. 656,485.

Patented Aug. 21, 1900.

H. R. SHEPPARD.
GAS AND COAL RANGE.

(Application filed Apr. 27, 1900.)

(No Model.)

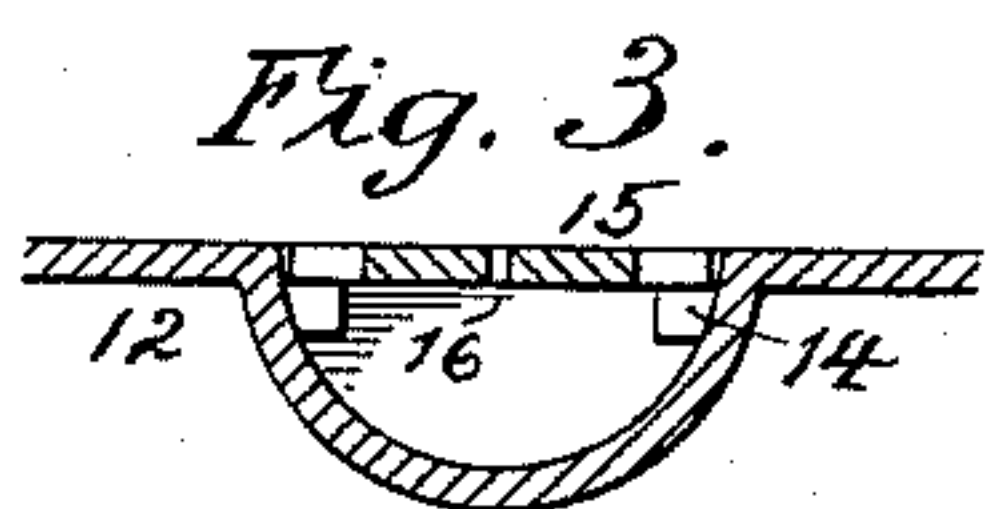
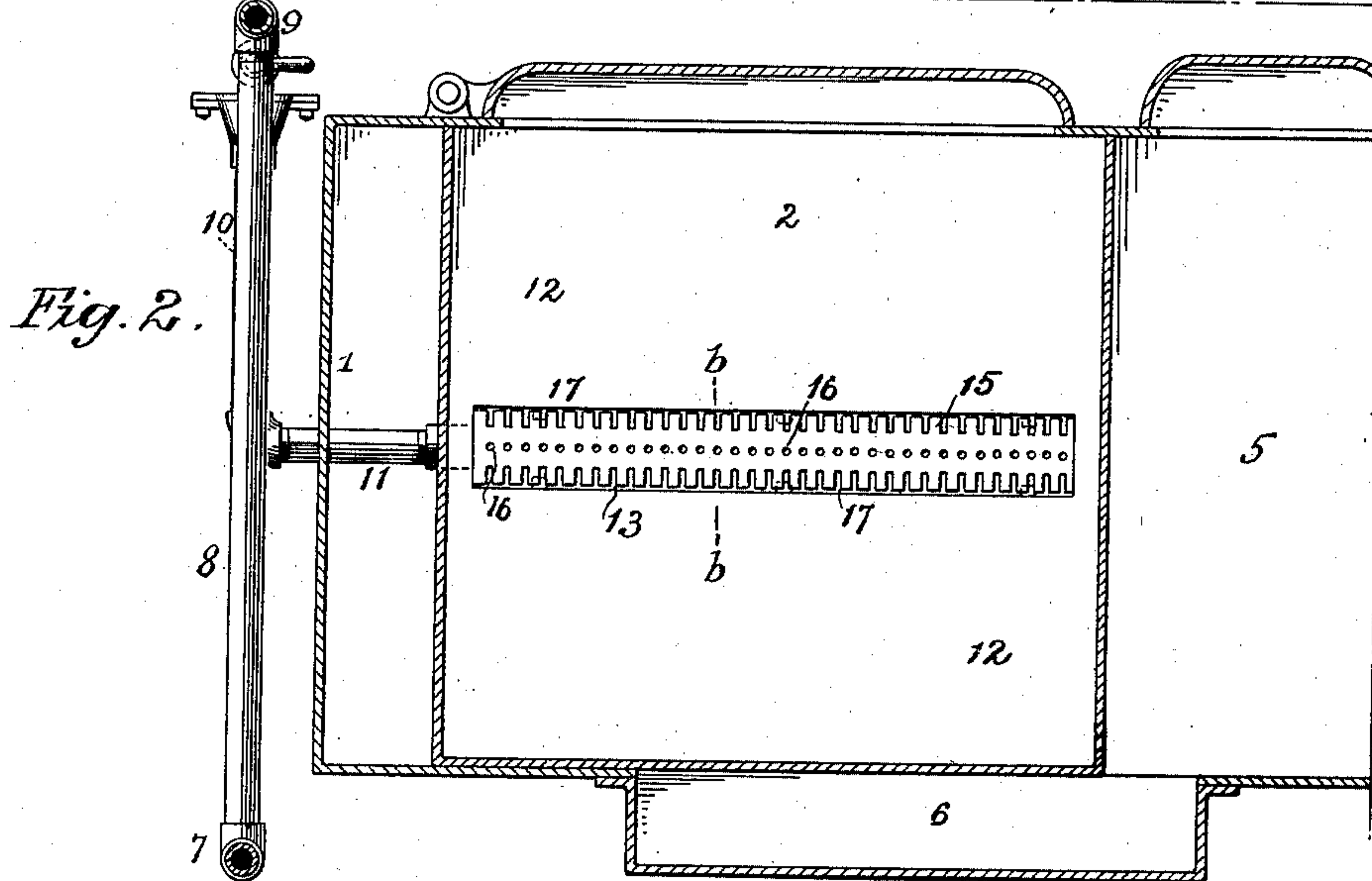
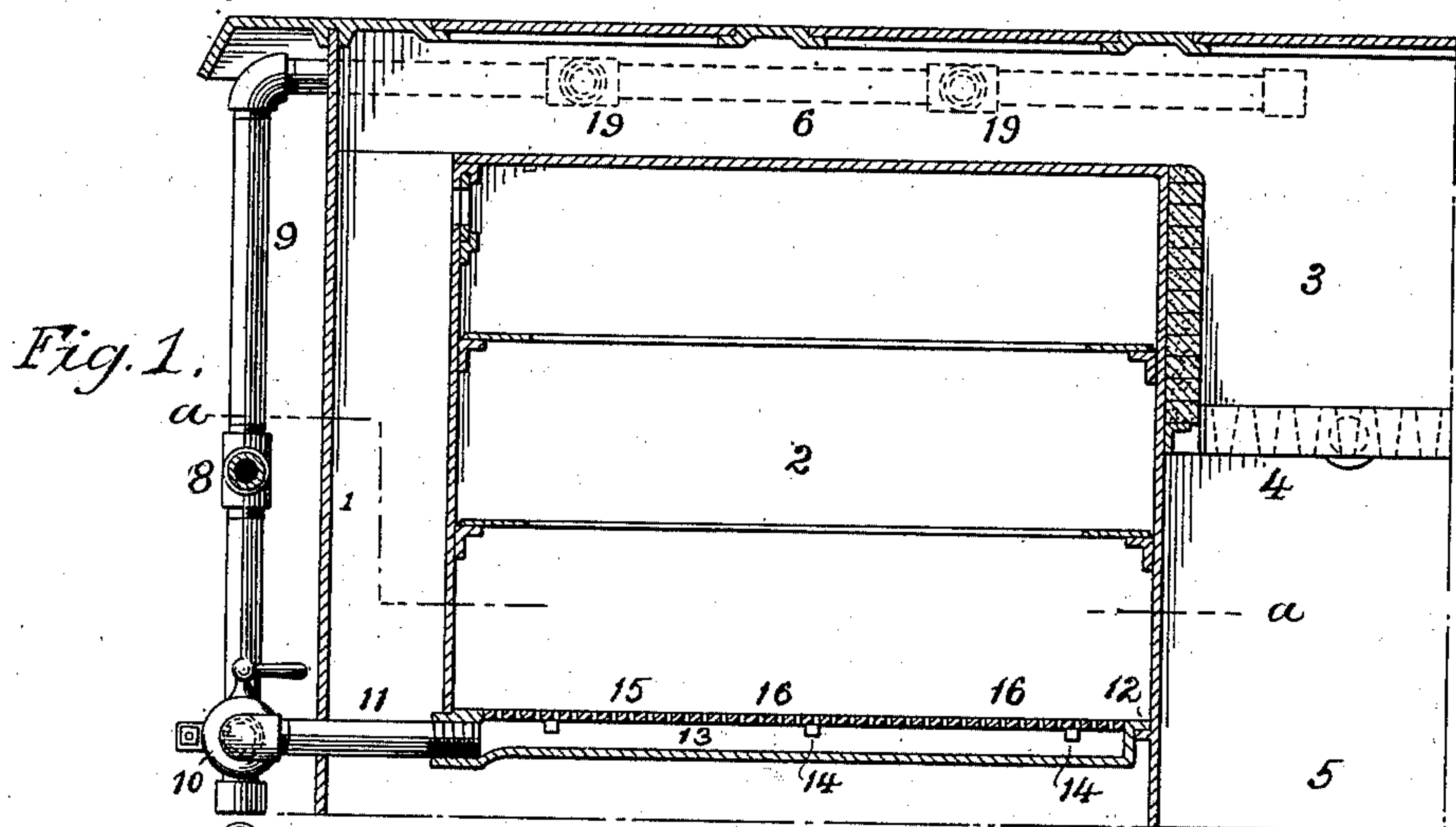
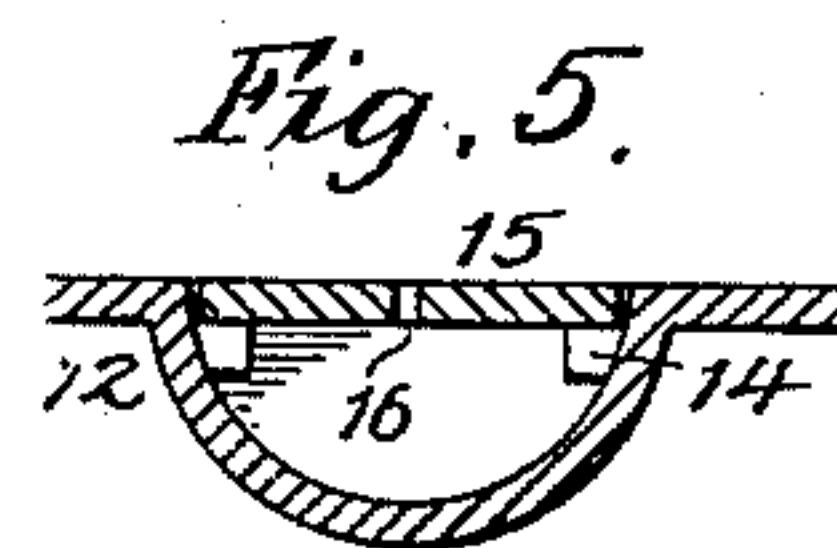
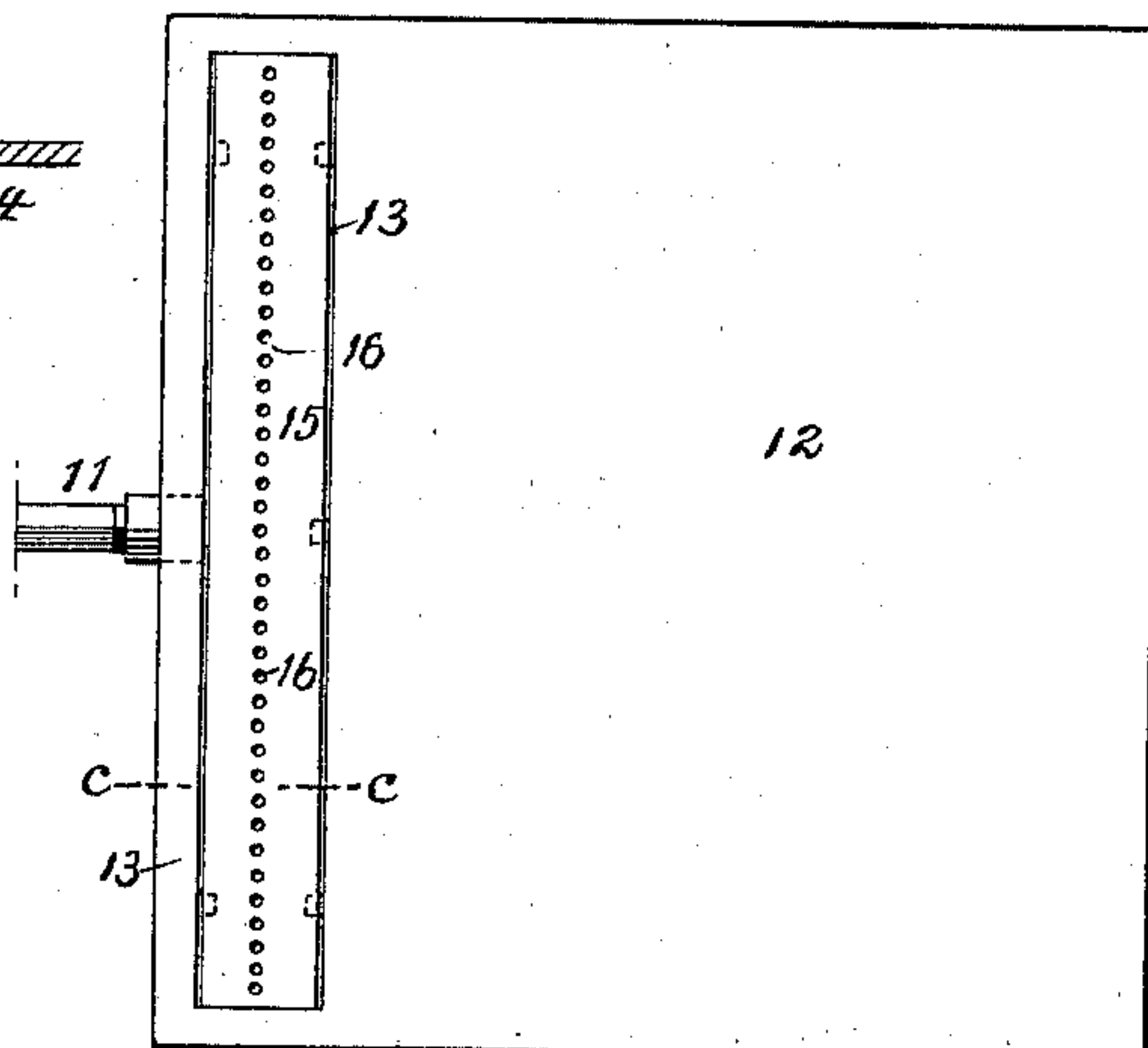


Fig. 4



Witnesses:-

Chas. De Cor.

Wm. H. Colburn.

Inventor:

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by His Attorneys:-

Wm. & Wm.

UNITED STATES PATENT OFFICE.

HOWARD R. SHEPPARD, OF PHILADELPHIA, PENNSYLVANIA.

GAS AND COAL RANGE.

SPECIFICATION forming part of Letters Patent No. 656,485, dated August 21, 1900.

Original application filed August 27, 1898, Serial No. 689,670. Divided and this application filed April 27, 1900. Serial No. 14,604. (No model.)

To all whom it may concern:

Be it known that I, HOWARD R. SHEPPARD, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Gas and Coal Ranges, of which the following is a specification.

My invention relates to certain improvements in combination gas and coal ranges in which gas is used for heating the oven, and is a division of an application filed by me on the 27th day of August, 1898, Serial No. 689,670.

The object of my invention is to improve the construction of the range of this character, so that the heating mechanism can be introduced into the oven without interfering with the ordinary construction thereof.

My invention is fully illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal sectional view of sufficient of a range to illustrate my invention. Fig. 2 is a sectional plan view on the line *a a*, Fig. 1. Fig. 3 is an enlarged sectional view through the gas-chamber in the oven on the line *b b*, Fig. 2. Fig. 4 is a plan view showing a modification of the arrangement of the oven-heater; and Fig. 5 is an enlarged sectional view through the modified form of gas-chamber shown in Fig. 4, taken on the line *c c*.

1 represents the body of the range, 2 is the oven, and 3 is the fire-box, provided with the ordinary grate for burning coal and having the usual ash-pit 5.

6 is the flue passing over the oven from the fire-chamber and around the former to the smoke-stack.

8 is the feed-pipe, connecting the gas-supply pipe at the back of the range with the vertical pipe 9 at the front of the range. This pipe 9 communicates with the burner in the oven through the pipes 10 and 11 and with the burners 19 19 at the top plate through a pipe 6.

Formed in the base-plate 12 of the oven 2 is a gas passage or chamber 13, with which the pipe 11 communicates. This passage is trough-shaped and has a series of lugs 14, on which rests the detachable plate 15, having a series of perforations 16 therein. This plate is also preferably provided with slots 17 at each side, so that the mixture of air and gas can escape from the passage 13 through said perforations and slots into the oven.

I have shown in Figs. 1 and 2 the passage or chamber 13 having the detachable form of plate arranged across the center of the oven; but it will be understood that it may be arranged lengthwise in the oven and at one side of the same, and the notches 17 in each side of the plate may be omitted, as indicated in the modification, Figs. 4 and 5, or the passage or chamber 13 may be in the form of a circular ring in the center of the base-plate of the oven, if desired.

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

1. The combination in a range, of an oven, the bottom of said oven having a recess formed therein, a gas-pipe communicating with said recess, a loose burner-plate fitting within the recess, said plate being flush with the upper surface of the bottom plate of the oven, substantially as described.

2. The combination in a range, of an oven, the bottom plate of said oven having an elongated recess formed therein, a gas-pipe communicating with said recess, a loose burner-plate fitting within the recess, said plate being flush with the upper surface of the bottom plate of the oven, substantially as described.

3. The combination in a range, of an oven, the bottom plate of said oven having an elongated recess at the center of the plate, lugs projecting from the walls of the recess, a loose burner-plate resting within the recess, and upon the lugs, slots in each side of the burner-plate, and a gas-pipe communicating with one end of the recess, substantially as described.

4. The combination in a range, of an oven having an elongated recess, lugs projecting from the side walls of the recess, a gas-pipe communicating with the recess, a loose burner-plate mounted in the recess and resting upon the lugs, so as to be flush with the top of the bottom plate of the oven, said plate having a series of perforations at the center and notched at each side, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HOWARD R. SHEPPARD.

Witnesses:

WILL. A. BARR,
JOS. H. KLEIN.