

B. J. TAYLOR.
BURNER ADJUSTMENT FOR GAS RANGES.
APPLICATION FILED FEB. 29, 1908.

911,916.

Patented Feb. 9, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

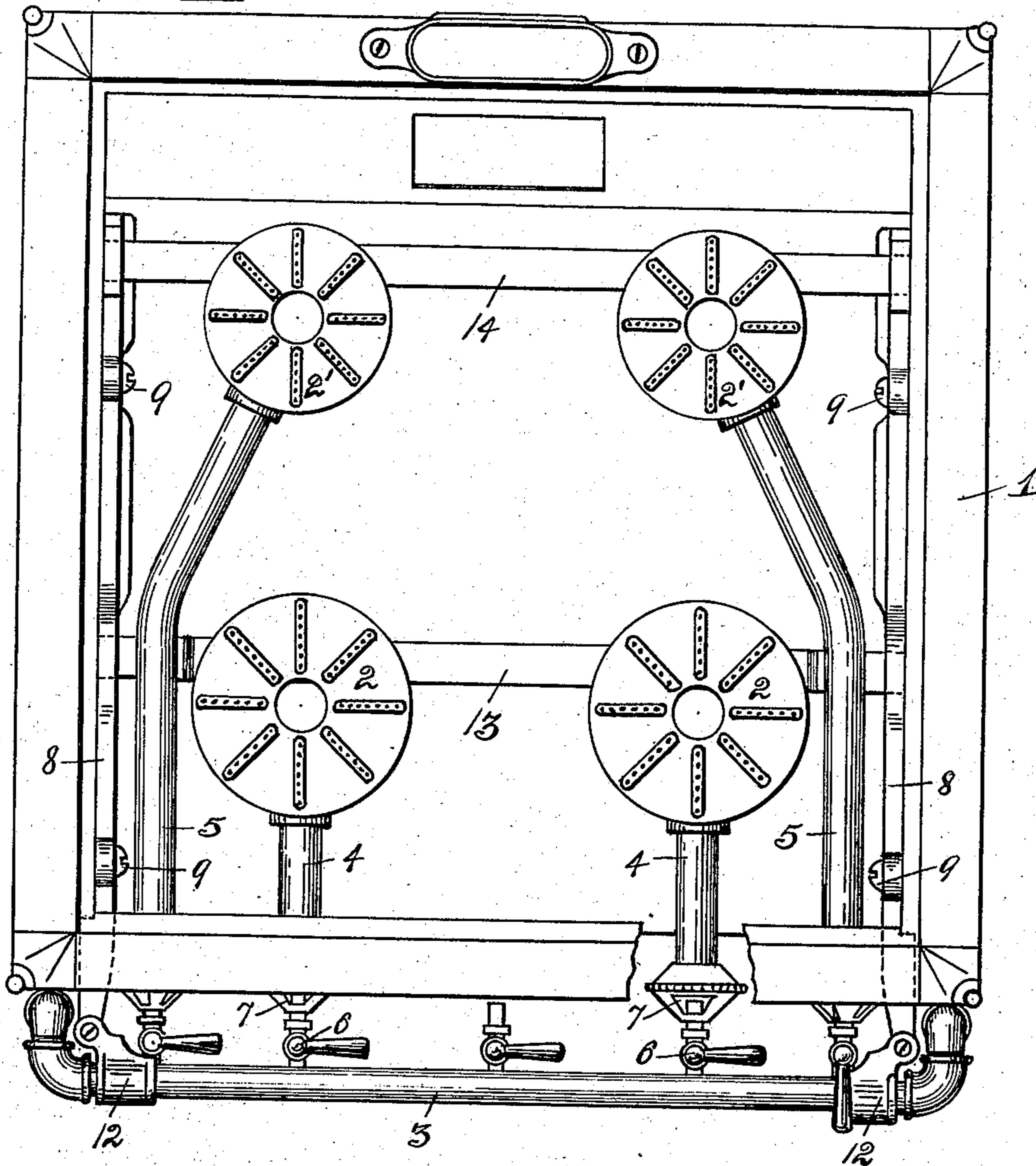


Fig. 2.

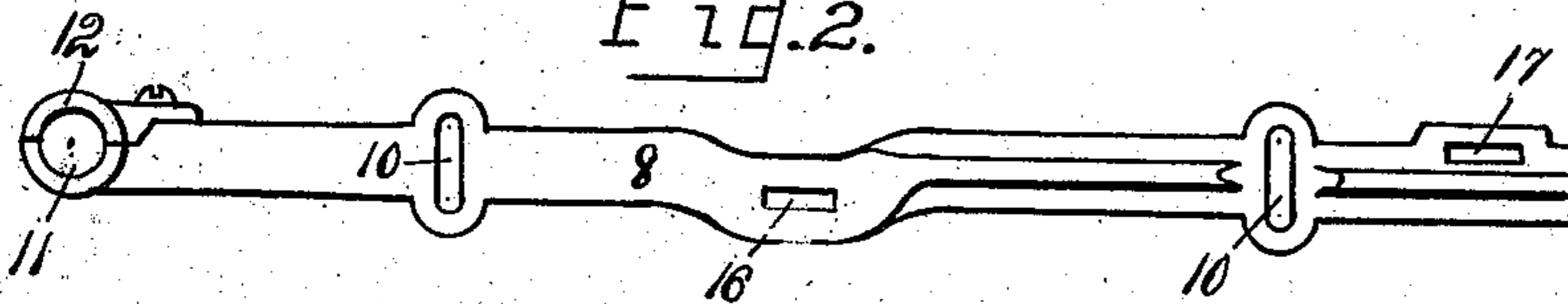
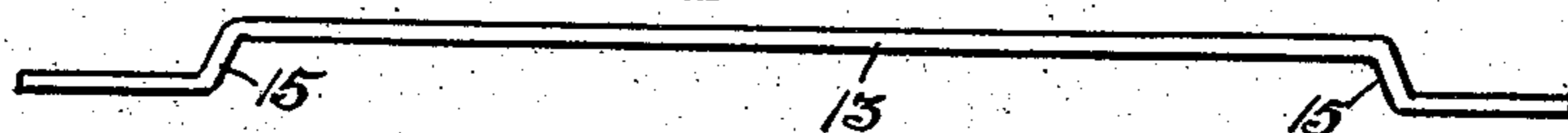


Fig. 3.



WITNESSES:

D. C. Walter
Hazel B. Nett

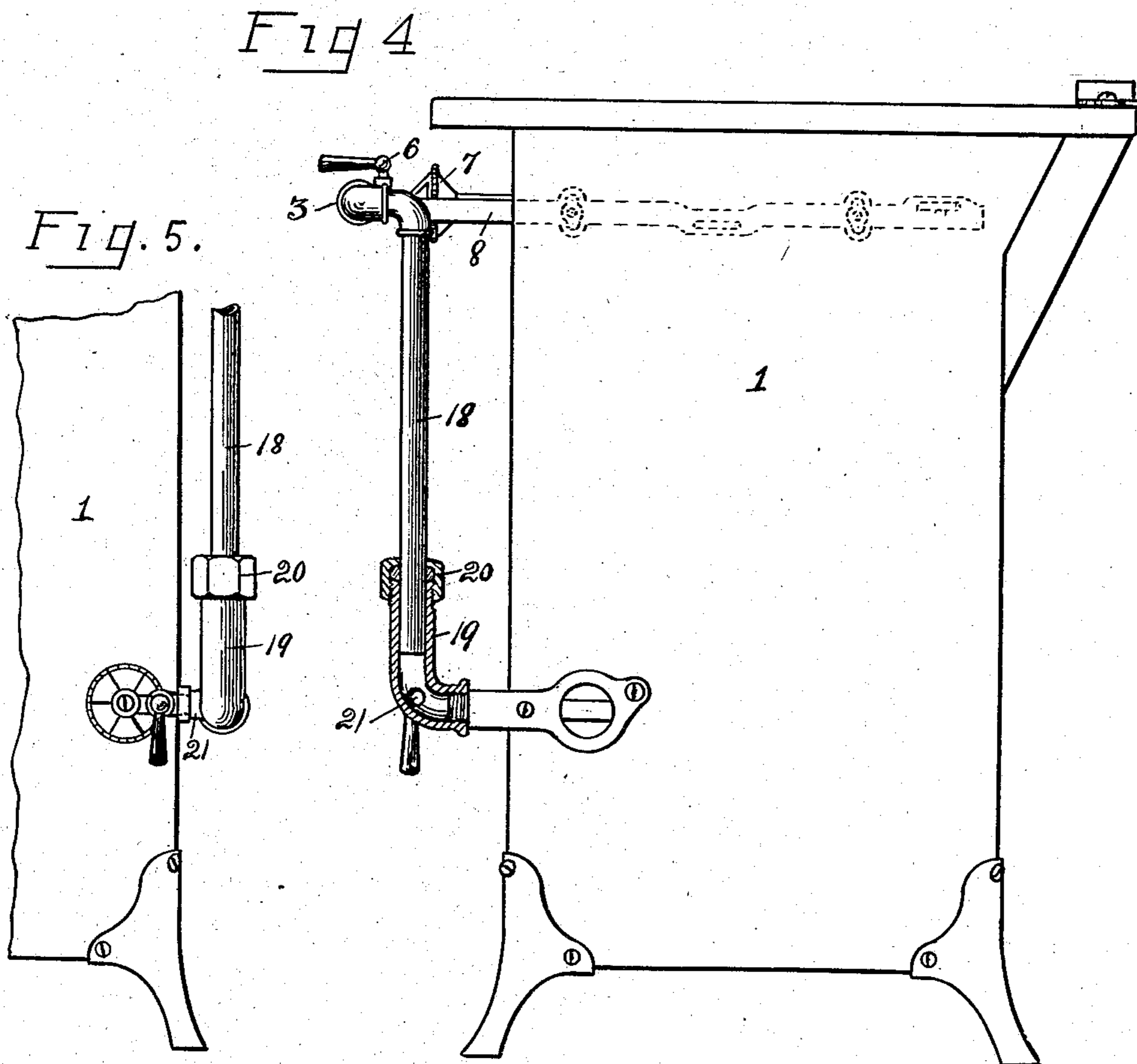
INVENTOR.

Benjamin J. Taylor,
By Owen & Owen,
His attys.

B. J. TAYLOR.
BURNER ADJUSTMENT FOR GAS RANGES.
APPLICATION FILED FEB. 29, 1908.

911,916.

Patented Feb. 9, 1909.
2 SHEETS—SHEET 2.



WITNESSES:

L. C. Walter
Hazel B. Mitt

INVENTOR.

Benjamin J. Taylor,
By Owen & Owen,
His attys.

UNITED STATES PATENT OFFICE.

BENJAMIN JAMES TAYLOR, OF TOLEDO, OHIO

BURNER ADJUSTMENT FOR GAS-RANGES.

No. 911,916.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed February 29, 1908. Serial No. 418,444.

To all whom it may concern:

Be it known that I, BENJAMIN JAMES TAYLOR, a citizen of the United States, and a resident of Toledo, in the county of Lucas and State of Ohio, have invented a certain new and useful Burner Adjustment for Gas-Ranges; 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 figures of reference marked thereon, which form a part of this specification.

My invention relates to gas ranges, and has for its object the provision of simple and efficient means for vertically adjusting the burners to adapt them for the burning of artificial or natural gas, as it is necessary to position the burners at a greater distance below the stove top when being used for the burning of natural gas than when being used for the burning of artificial gas.

The operation, construction and arrangement of the parts of the invention are fully described in the following specification, and illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of a range embodying my invention with a portion broken away and the top removed. Fig. 2 is a side elevation of one of the burner adjusting-bars. Fig. 3 is a side view of the forward bar which connects the two adjusting-bars. Fig. 4 is a side elevation of the range, with the elbow and associated stuffing-box of the oven-burner and supply-pipe connection in section, and Fig. 5 is a front view of the oven-burner and supply-pipe connection.

Referring to the drawings, 1 designates an ordinary or any suitable form of gas range body, and 2, 2 and 2', 2' the forward and rear top burners thereof, respectively. Disposed across the front of the range near the top thereof in the usual manner is the gas feed-pipe 3, which connects with the forward burners 2, 2 through the pipes 4, 4 and with the rear burners 2', 2' through the pipes 5, 5, each of which burner-pipes is provided with the customary valve 6 and mixing-chamber 7.

Secured within the upper portion of the range body to opposite sides thereof are the side adjusting-bars 8, 8, which are made vertically adjustable by the retaining-screws

9 passing through transverse slots 10 therein, or in any other suitable manner. The forward ends of these bars project beyond the front of the range body and are fashioned, as at 11 in Fig. 2, to form a support for the feed-pipe 3, which is held thereto by the top clamping plates 12, as shown.

In order to form supports for the burners, which are adjustable with the bars 8, 8, said bars are connected by the two cross-bars 13 and 14, the former of which passes under the forward burners 2, 2 in contact therewith, while the latter passes under the rear burners 2', 2' in contact therewith. The ends of the forward support 13 are vertically offset, as shown at 15, to adapt them to pass under the pipes 5, 5, leading to the rear burners, and fit into registering mortises or slots 16 in the side bars 8, 8. As the rear support 14 does not pass under any pipes it is made straight, as shown, and has its ends fitted into registering mortises or slots 17 provided in the rear end portions of the side-bars 8, 8 in a plane above that of the mortises or slots 16, as shown in Fig. 2. It is thus apparent that a raising or lowering of the side bars 8, 8 will effect a corresponding raising or lowering of the burner and their connecting pipes through the cooperating action of the feed-pipe 3 and cross-bars 13 and 14. It is also apparent that while the invention is shown as being associated with a four top-burner range, it can be used in connection with one or more burners as desired.

The feed-pipe 3 may have one or both ends provided with a downwardly-extending pipe 18, which has its lower end slidingly fitting within the upper end of an elbow or pipe 19 connected to the usual supply-pipe (not shown). As the feed-pipe 13 is raised or lowered with an adjustment of the burners, its extension 18 is permitted to slide within the elbow or pipe 19 to accommodate itself to such adjustment. A stuffing-box 20 cooperates with the pipe 18 and elbow 19 to prevent leakage at their point of connection. If desired an oven-burner branch 21 may be tapped into the supply-pipe or elbow in the usual or any convenient manner. The feed-pipe 3 is shown in Fig. 1 as having each end provided with a downward extension to adapt it for connecting with a supply-pipe on either side of the range as the piping may necessitate.

It is thus apparent that I have provided a very simple, efficient and easy method of adjusting the top burners of a stove to adapt them for the burning of natural or artificial gas without necessitating the disconnecting of the stove or pipes for such purpose.

I wish it understood that I do not desire to be restricted to the exact details of construction and arrangement of the parts shown and described, as obvious modifications will occur to persons skilled in the art.

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

1. In a gas-range, a supply-pipe, a feed-pipe having telescopic stuffing-box connection with the supply-pipe, burners having valve controlled connection with the feed-pipe, and means supporting the feed-pipe and burners and vertically adjustable relative to the range.

2. In a gas-range, a pipe having connection with a source of gas supply, said pipe comprising a fixed part and a relatively adjustable part in telescopic connection with said fixed part, a burner in valve controlled connection with said adjustable part, and means vertically adjustable relative to the range for supporting the burner and adjustable pipe part.

3. In a gas-range, a supply-pipe, a feed-pipe having an end in vertically-adjustable connection with the supply-pipe, top burners having valve-controlled connection with the feed-pipe, and means supporting the

feed-pipe and burners and vertically adjustable relative to the range top.

4. In a gas-range, a supply-pipe, a plurality of burners, a common feed for the burners having vertically-adjustable connection with the supply-pipe, bars secured to the range for vertical adjustment and forming supports for the feed-pipe, and means supporting the burners and connecting said bars for adjustment therewith.

5. In a gas-range, a supply-pipe having an up-turned end provided with a stuffing-box, a common feed-pipe for the burners having a downwardly-extending part telescoping within the up-turned end of the supply-pipe, burners in valve-controlled connection with the feed-pipe, and a vertically-adjustable frame supporting both the burners and feed-pipe for adjustment therewith.

6. In a gas-range, a supply-pipe, an oven-burner, a plurality of top burners, a common feed-pipe in valve-controlled communication with the top burners and having vertically-adjustable oven-burner and supply-pipe connection, and a vertically-adjustable frame carrying the top-burners and feed-pipe for adjustment therewith.

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

BENJAMIN JAMES TAYLOR.

Witnesses:

C. W. OWEN,
HAZEL B. HIETT.