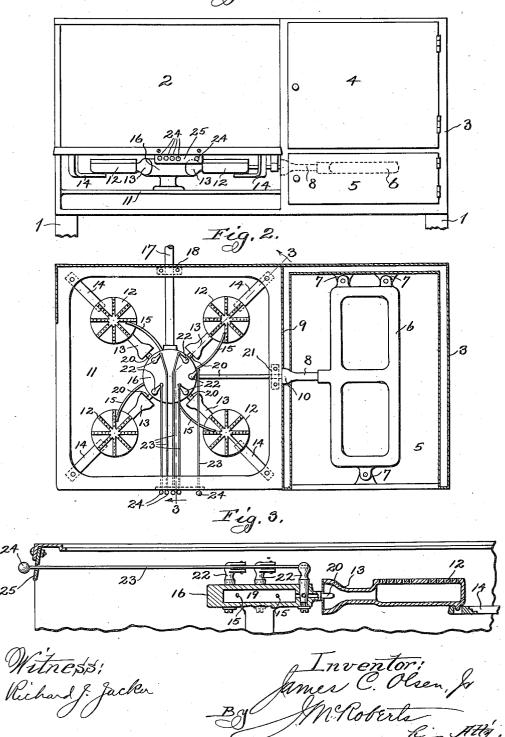
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GAS RANGE

Filed May 31. 1924

Fig.1.



PATENT UNITED OFFICE. STATES

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GAS RANGE.

Application filed May 31, 1924. Serial No. 716,927.

To all whom it may concern:

Be it known that I, JAMES C. OLSEN, Jr., a citizen of the United States, residing at North Aurora, in the county of Kane and 5 State of Illinois, having invented certain new and useful Improvements in Gas Ranges, do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accom-

10 panying drawing.

In gas ranges the cooking-top is usually provided with a plurality of main burners and (when desired) with a relatively small simmering burner, which are supplied with 15 gas from a gas-manifold arranged on either the front or one end of the range. Where such ranges are of the cabinet type having an upper baking-oven and a lower broiling oven arranged at one side of the cooking-20 top, the oven-burner is supplied with gas from such manifold by a suitable tube which in some stoves extends directly out of the oven to the manifold and in others extends through the side wall of the oven into the 25 burner-box of the open-top section and tertypes of stoves the gas-manifold is located on the outside of the stove, being mounted 30 front. This first arrangement is objectionable in that the manifold and the valve-connections at the end of the stove increase its length, and furthermore require space at the end of the stove for access to the burners so 35 that the stove cannot be set close to a side with its air-mixer 10 suitably arranged in wall of the room. The front manifold is one end of the burner-box 11 of the openobjectionable as it necessarily increases the width of the stove, and when it extends in front of the oven-door as in some cabinet-40 ranges it is undesirable as when the door 45 the valve of that burner.

50 burner-box from the rear and its valve- burner-box and is supplied by a main feed an organization I obtain, in addition to of the burner-box and suitably clamped to economy of manufacturing, the very important advantages in gas-ranges of this charfold is preferably a circular casting and is 110 formed with a gas-chamber 19 into which wise taken up outside or beyond the confines

or area of the stove by the manifold and the valve-connections, and of increasing the convenience and efficiency of the stove by grouping the operating parts for the sup- 60 ply valves for the various burners in compact relation at the center of the front open-

ing of the burner-box.

For the purpose of illustrating my invention I have shown in the accompanying 65 drawing one form or exemplification thereof which gives satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged 70 and organized and that my invention is not limited to the precise arrangement and organization of these instrumentalities as herein shown and described. In the drawing Fig. 1 is a perspective view of a gas- 75 range to which my improvements are applied with the top-grate or grid omitted for convenience of illustration; Fig. 2 is a plan view thereof partly in section, and Fig. 3 is a sectional view on the line 3—3 in Fig. 2. 80

As here shown, the reference numeral 1 minates at the front thereof. In all these designates the frame of the stove, 2 the opentop section, and 3 the oven section arranged at one side of the open-top and comprising beyond its area either at one end or at the an upper baking oven 4 and a lower broiling 85 oven 5 having a suitable center-heat gas burner 6. The burner 6 is supported on suitable brackets 7 on the oven walls and its fuel-supply tube 8 extends through an opening in the side wall 9 of the oven-body 90 with its air-mixer 10 suitably arranged in top section. The burners 12 in the burnerbox are of any suitable form of the usual blue-flame type having their feed-tubes 13 95 provided with air-mixers, and are supported is opened the hot air from the oven enters in the plane of the oven-burner 6 by suitable the mixing-tube and interferes with proper removable supports 14 so that they can be combustion in the oven-burner, while the readily lifted from place for cleaning purdoor when dropped interferes with access to poses. In practice the top-burners 12 are 100 preferably interchangeable, and each is pro-The object of my invention is to obviate vided with a pilot-light tube 15; in the form these objections by providing a gas mani- shown four top-burners are employed and fold and its valve-connections in the cook- are grouped around a central gas-manifold ing-top having its feed pipe leading into the 16 which is mounted on the floor of the 105 handles at the front of the box. By such gas-pipe 17 extending out through the rear

nozzles or jets 20 lead into the air-mixers of the burner-box and provided with a pluthe burners, the jet for the oven-burner 6 being suitably extended as shown and preferably supported at its free end by a suitable clamp 21. Each jet is governed by a valve or cock 22, and in the preferred embodiment of my invention each cock has an 10 vided with a suitable knob or burner-indicator 24; these handles are supported in a group at their forward ends by a suitable bracket 25 attached to the underside of the top-frame at the center of the burner-box. 15 The pilot-light tubes 15 of the top-burners 12 communicate with the gas-chamber 19 of the manifold, and if desired each may be governed by an appropriate valve to increase the pilot-flame momentarily when its associated ing a burner-box, an oven-section at the side 20 burner is to be lighted.

its adjunctive parts are organized as a unitary construction which is located entirely within the area of the stove, and this unit 25 organization also affords controlled fuel supply to the oven burner of ranges of the cabinet type, while the handles for all the gas-valves are grouped at the front of the burner-box.

I claim:

1. In a gas range, an open-top section hav- my signature. ing a burner-box, a gas-manifold located in

rality of jets, a cock on each jet and having an operating handle at the front of the 35 burner-box, and gas-burners in the box having their supply tubes in alinement with the

2. In a gas range, an open-top section havoperating handle 23 extending out through ing a burner-box, an oven-section at the side 40 the open-front of the burner-box and pro- of said open-top section, a gas-manifold of said open-top section, a gas-manifold located in the burner-box, valves on the manifold having discharge jets, a plurality of burners in the box each having a supply tube in alinement with a jet, a gas-burner 45 in the oven-section having a supply tube extending through the side wall of the oven in line with a jet, and valve handles extending to the front of the burner-box.

3. In a gas range, an open-top section hav- 50 of said open-top section, a circular gas mani-By this organization the gas-manifold and fold located in the burner-box, valves on the manifold having radial discharge jets, a plurality of burners grouped in the box 55 around the manifold and each having a supply tube in alinement with a jet, a gas-burner in the oven-section having a supply tube extending through the side wall of the oven in line with a jet, and valve handles grouped 60 at the front of the burner-box.

In witness whereof I have hereunto affixed

JAMES C. OLSEN, JR.