Sept. 1, 1942. J. TELLER ET AL 2,294,701

TABLE TOP BROILER

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Fig. 1.

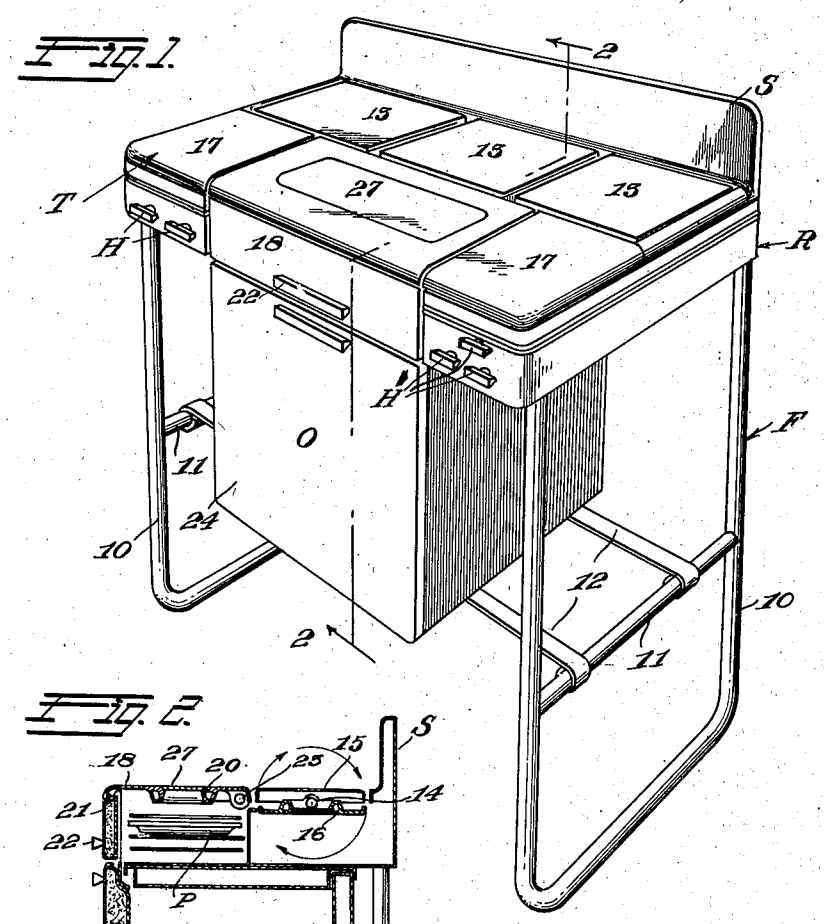


Fig. 2.

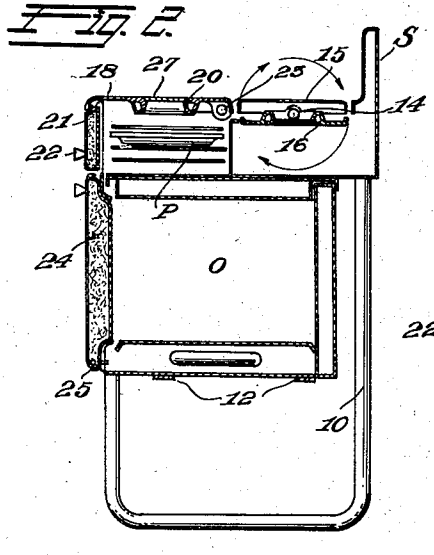
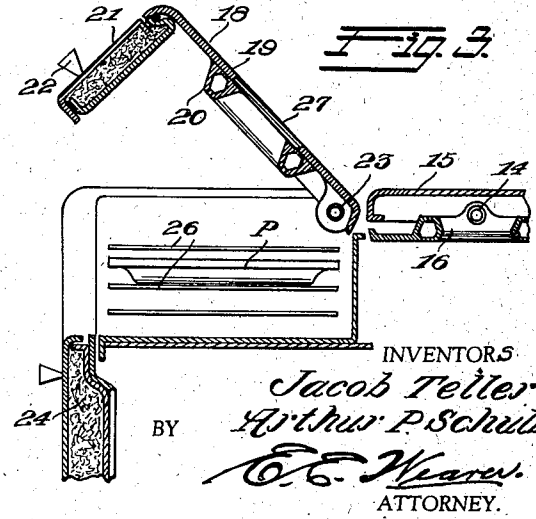


Fig. 3.



INVENTORS
Jacob Teller.
Arthur P. Schulz.
BY E. E. Weaver.
ATTORNEY.

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Fig. 4.

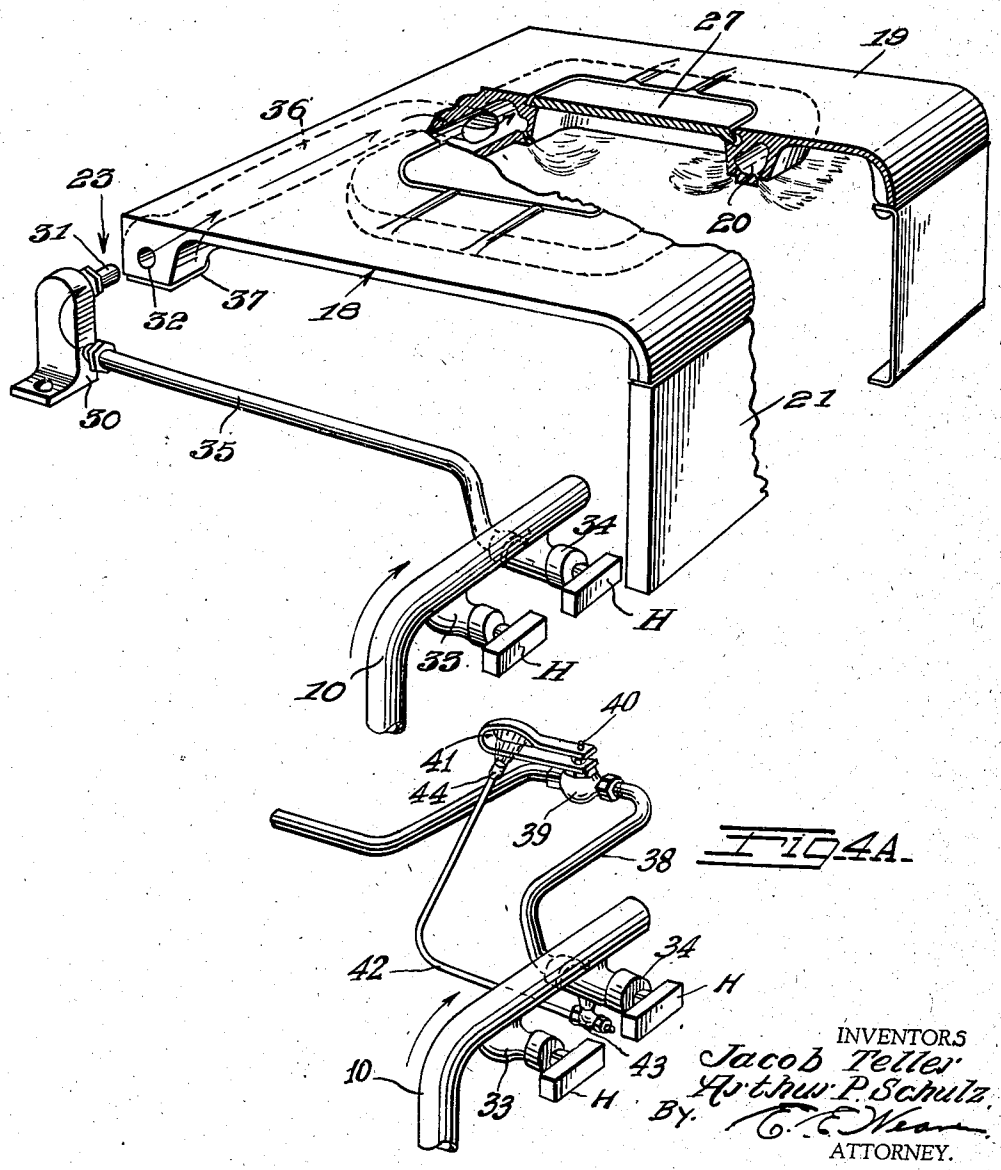


Fig. 4A.

INVENTORS
Jacob Teller
Arthur P. Schultz.
BY. C. E. Wear
ATTORNEY.

Patented Sept. 1, 1942

2,294,701

UNITED STATES PATENT OFFICE

2,294,701

TABLE TOP BROILER

Jacob Teller, Chicago, and Arthur P. Schulz, Hinsdale, Ill., assignors to G. and J. Teller, Chicago, Ill., a partnership composed of Grace Teller and Jacob Teller

Application October 8, 1938, Serial No. 234,008

1 Claim. (Cl. 126—39)

This invention relates to gas ranges.

A primary object of the invention is the provision of a gas range of the table-top type, the table top comprising a liftable broiler burner section and a plurality of rotatable cooking burner sections which are capable of being selectively positioned for providing with the broiler burner section a plane table top or for cooking upon one or more of the cooking burners.

A further object of the invention is the provision of a gas range comprising a tubular frame having an oven centrally suspended therefrom, a liftable broiler burner immediately above the oven, and a plurality of tiltable or rotatable cooking burners in the rear of the broiler burner, the broiler burner when in operative position presenting a smooth table-top section and the cooking burners when in inoperative position presenting table-top sections co-planular with the broiler burner section for providing a plane table-top or working surface.

A still further object of the invention is the provision of a gas range having a low oven, and a broiler compartment above the oven, the oven having a door swingable about a pivot at the bottom thereof and the broiler compartment having its top provided by a liftable section embodying an integral burner, the liftable section and oven door being operable independently of each other.

A still further object of the invention is the provision of a gas range having a broiler whose top is defined by an upwardly swingable plate section having a removable lid or grid immediately above the burner, whereby the burner is capable of use for broiling or for heating vessels supported on the plate section upon removal of the lid.

A still further object of the invention is the provision of a gas range of the above noted character having improved gas conducting and controlling means associated therewith.

For a more complete understanding of the nature and objects of the invention, reference should be had to the following detailed description, taken in connection with the accompanying drawings, wherein:

Fig. 1 is a perspective view of a gas range constructed in accordance with a preferred embodiment of the invention.

Fig. 2 is a transverse vertical section in a plane substantially as represented by the line 2—2 in Fig. 1.

Fig. 3 is an enlarged view of a portion of the sectional construction illustrated in Fig. 2, and

Fig. 4 is a broken and partially disassembled fragmental perspective view showing a preferred means of conducting gas to the boiler burner.

Fig. 4a is a perspective view showing a modification of a portion of Fig. 4.

Referring now in detail to the drawings by reference characters, and wherein like characters designate like parts, R designates the improved range in its entirety.

The range R preferably comprises a tubular frame F including U-shaped ends 10 each having a transverse strut 11 which in turn are interconnected by reinforcing and oven supporting straps 12.

The frame F supports the combined cooking and table top T to the rear of which is disposed the usual splasher back S and below which and supported by the straps 12 is an oven O.

The combined cooking and table top T comprises a plurality (preferably three) of cooking burner sections 13 which are pivotally mounted coaxially with the gas supply conduit as indicated at 14 in Figs. 2 and 3.

The sections 13 each embody a plane surface 15 and a burner 16 whereby a plane working top is provided when the sections are rotated to the position illustrated and whereby upon rotation of one or more of the sections through an angle of 180° the burner or burners 16 are positioned for cooking purposes.

The table top T further comprises fixed lateral sections 17 through the front of one of which projects the broiler and oven gas burner control valve handles H, and through the front of the other of which projects the cooking burner control valve handles H'.

The combined cooking and table-top T is completed by a broiler burner section 18 which comprises a plane top 19, an integral broiler burner 20 and a front panel 21 rigid with the top 19 and provided with a lifting handle 22.

The section 18 is pivoted coaxially with the gas supply connection as indicated at 23 in the same manner as the connection 14.

The oven O is provided with a door 24 swingable about a pivot 25 and the top of the door and bottom of the panel 21 when in closed position are in juxtaposition as is clearly indicated in Figs. 1 and 2.

The gas range as herein disclosed provides a construction which is not only highly efficient in use but which also is desirably convenient in that a smooth working or table top can readily be provided at the discretion of the user as is illustrated in Fig. 1, one or more of the cooking sec-

tions 13 can readily be rotated to bring the burner 16 into use and the liftable broiler burner section 18 permits access to the broiler compartment for removing the pan P or for adjusting same in the horizontal racks 26 without in any way interfering with the oven door 24. Furthermore, the oven door 24 is free to be opened or closed when the broiler burner section 18 is in closed or operative position.

The broiler burner section 18 is preferably provided with a removable grid or lid 27 whereby upon removal of same the burner 20 may be utilized for cooking purposes.

In Fig. 4 is illustrated a preferred means for pivotally supporting the broiler burner section 18 as well as an improved means for conducting gas to the burner.

As shown in this figure, the pivotal connection 23 preferably comprises an adaptor casting 30 at each side of section 18 (only one of which is illustrated), and which castings are each provided with an extension or spud 31 in an orifice 32 in the rear of section 18, the opposite extensions being in alinement for pivotally supporting said section for vertical swinging movement.

Gas is conducted to the burner 20 as well as to the cooking burner 16 preferably by utilizing the hollow tubular frame partially as gas conducting means and as indicated in Fig. 4 the oven and broiler burner control valves 33 and 34 respectively are in communication with the adjacent frame end 10 as a gas conduit, the valves controlled by handles H' being of course in like communication with the opposite frame end 10 in a manner well understood.

As indicated in Fig. 4, the valve 34 communicates with a gas line 35 which at its opposite end communicates with extension or spud 31 (which of course is tubular) through the casting 30, and as the aperture or orifice 32 communicates with the mixer 36 having a mixer slide 37, the gas is directly admitted to the burner 20 upon opening the valve 34.

In Fig. 4a is further illustrated a safety gas control means and which may or may not be used with the particular broiler top construction disclosed. The safety control however, while not being limited in its use to this particular construction is highly desirable in operative association therewith.

As indicated, the control comprises a lateral contact extension 38 having a safety valve 39 therein, the valve 39 is operable by a plunger 40 controllable by a bimetal thermostat 41.

A pilot tube 42 having a control valve 43 carries a pilot nozzle 44 in a position such that the pilot flame will play upon the thermostat 41 and open the valve 39 and thus permit gas to pass to the burner 20 through line 35, casting 30, spud 31 and mixer 36.

The thermostat 41 is of course so positioned that the pilot flame will ignite the gas flowing from the burner 20.

Thus with this improved safety control, the gas cannot be turned on (that is admitted to burner 20) should the pilot be extinguished and it avoids accidental turning on of the gas without the pilot having been lit and it also permits lifting of the burner 20 when on, and adjusting flame without stooping.

The pilot is of course intended to be constantly burning as a result of which the burner 20 will be automatically lit upon opening valve 34 and placing the burner in a horizontal position as shown.

As is more readily apparent from Fig. 4, the burner 20 is in fact a giant burner due to its position underneath the plate section 18 whereby it serves for broiling and due also to its encircling relation to the opening normally closed by lid 27 it further serves for cooking upon placing vessels on the section 19 subsequent to the removal of the lid 27.

While the oven door 24 is preferably hinged at the bottom thereof, it may equally well be hinged at the side to provide a swing door without in any way affecting the essential features of the invention.

It will be appreciated from the foregoing disclosure that a gas range is provided in accordance with this invention which substantially fulfills the maximum requirements from the standpoint of efficiency and convenience.

While we have disclosed certain specific embodiments of our invention only, such are to be considered as illustrative and not restrictive, the scope of the invention being defined in the subjoined claim.

What we claim and desire to secure by United States Letters Patent is:

A gas range comprising a frame, an oven suspended by the frame, a broiler compartment supported by the frame above the oven, a door pivotally connected adjacent the bottom of the oven with its upper edge substantially flush with the bottom of the broiler compartment when in closed position, and a broiler burner cover section, pivot means at the rear of said burner cover supporting said cover for vertical swinging movement toward and from the upper edge of the oven door, said pivot means including a hollow lug carried by the frame adjacent one rear corner of said cover and having a gas supply pipe projecting therefrom, said pivot means further including a complemental hollow lug on a rear corner of said cover and engaged rotatably on said pipe, a broiler burner carried by said cover and communicating with the last mentioned lug, the broiler burner cover section including a panel for closing the front of the broiler compartment and the panel having its free edge contiguous the upper edge of the oven door and its outer surface in the vertical plane of the outer surface of the oven door when the broiler burner cover section and oven door are both in closed position.

JACOB TELLER.
ARTHUR P. SCHULZ.