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COOKING TOP BROILER

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2 Sheets-Sheet 1

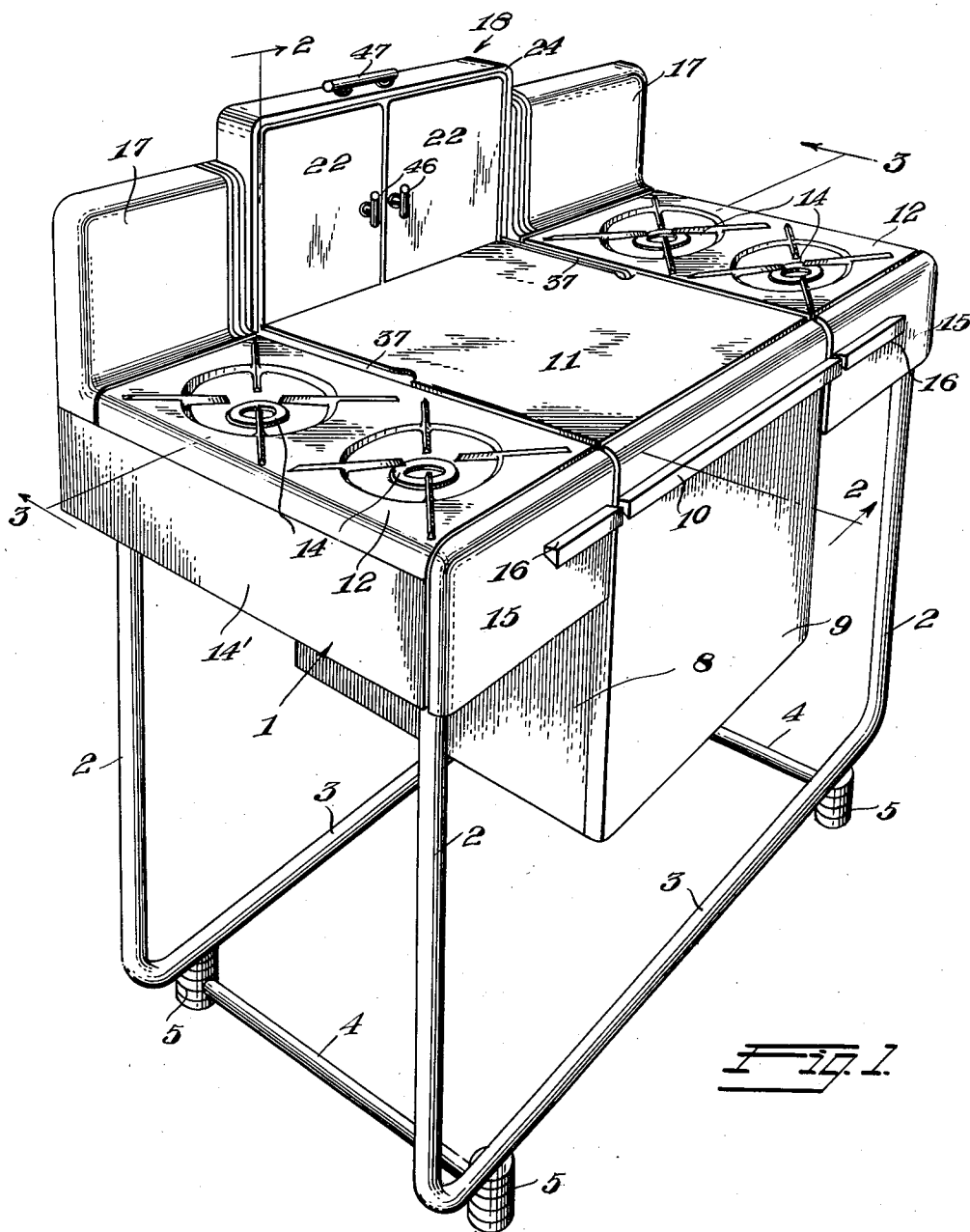


Fig. 1

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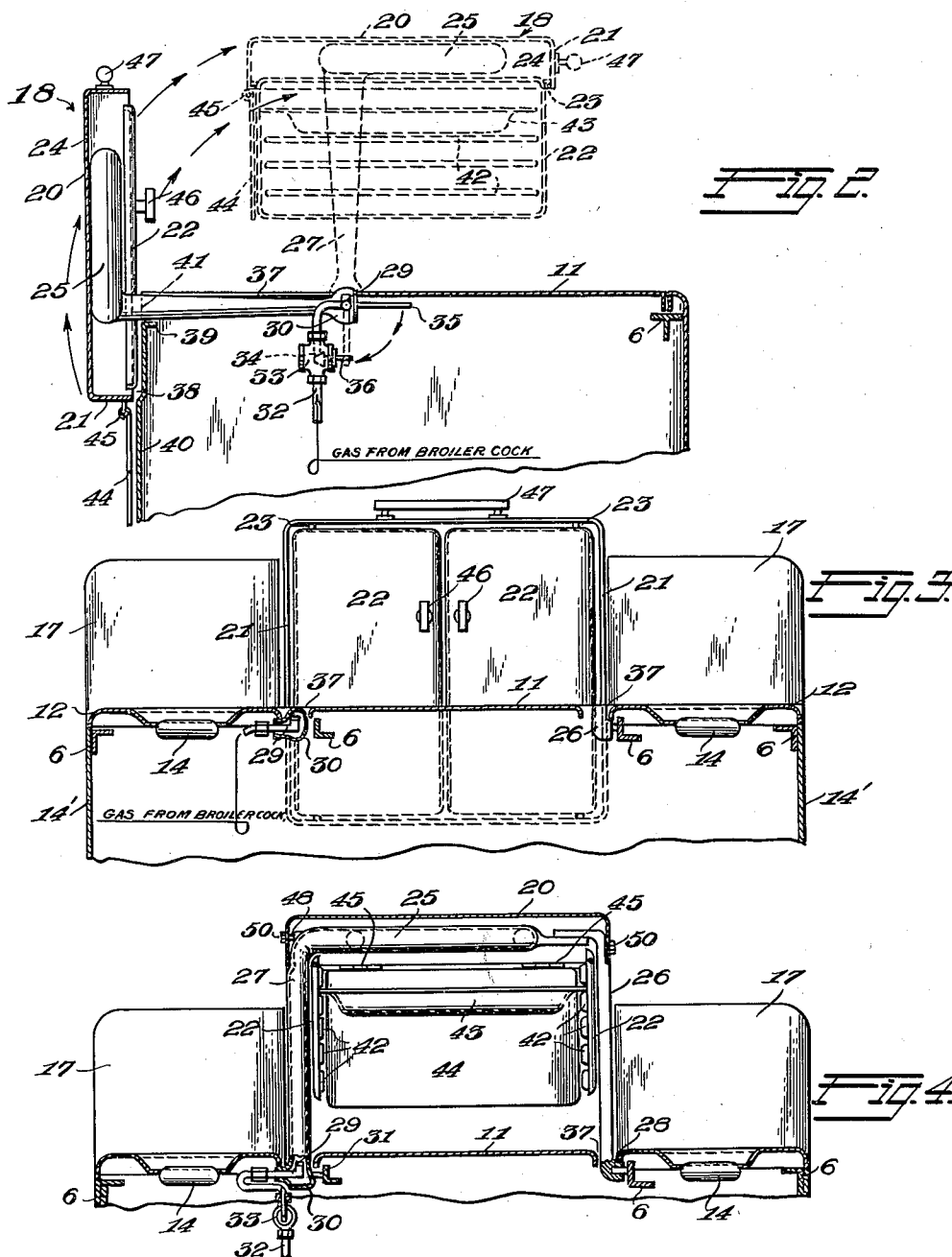
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COOKING TOP BROILER

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6 Claims. (Cl. 126—39)

This invention relates to cooking apparatus, including a working surface having burner and plane top surface sections, one of which lies above a pendant oven, disposed alongside the burner portions and relates further and more particularly to a range construction having associated therewith, a movable broiler of novel construction and arrangement with relation to the oven and top burner sections.

10 It is a primary object of this invention to provide a broiler construction of broiler, associated in such relation to the remainder of the range, that it may, in inoperative position, be disposed at the rear of the range body where it will not
15 interfere with the use of the top burners nor the use of a pendant oven top when the latter is employed as a plane work surface.

It is a further object of the invention to provide a broiler which when not in use may be
20 folded or be positioned back of the range, but may be swung on pivotal supports to position it in operation above the stove top, and so disposed as to be conveniently accessible for use.

It is a further object of the invention to provide a broiler, hinged or pivoted to swing from
25 a position of rest at the rear of the range body, to an operative position above the working top thereof, the means for supporting the broiler being arranged to automatically control the supply of
30 fuel to the broiler burner.

It is a further object of the invention to provide a movable broiler in which the burner, doors and associated parts are so arranged that they may be closed into a compact space, and whereby
35 said broiler operating parts are entirely concealed when not in use.

It is a further object of the invention to provide a construction in which the broiler housing is provided with doors which, when in inoperative
40 position, cover and conceal the burner, but which in operating position, function as supporting means for cooking utensils.

It is a further object of the invention to provide a broiler construction which may be folded
45 to a position at the rear of the range body when not in operation, and in which the doors for the broiler housing are disposed to lie in a plane substantially with that of the splashers back members, to the end that an ornamental appearance
50 of a continuous back element is afforded.

Further features reside in the specific construction of the broiler housing with its associated members, its manner of support upon the range body, and the general relation of the broiler housing when in inoperative position, to the re-

mainder of the range elements, to the end that there is provided a combined range and broiler structure having a utilitarian as well as ornamental appearance.

In the accompanying drawings, forming a part of this specification,

Figure 1 is a front perspective view of the range embodying this invention,

Figure 2 is a transverse sectional view of the upper part of the range on substantially the line 2—2 of Figure 1, and showing the broiler at rest position in full lines and in elevated horizontal operative position in dotted lines.

Figure 3 is a horizontal sectional view of the range on the line 3—3 of Figure 1, showing the broiler in front elevation, with its lower portion in dotted lines, and

Figure 4 is a view similar to Figure 3, but showing the broiler in elevated and operating position, and illustrating a broiler pan within the broiling space and its relation to the broiler burner.

Referring now more particularly to the accompanying drawings by numerals of reference, 1 designates generally the range body as a whole, and includes a metal supporting frame, preferably tubular, and comprising vertical leg members 2 connected by longitudinal horizontal members 3, transverse horizontal members 4, and feet 5. Mounted upon this supporting frame is an upper frame structure 6, which may take any suitable form, since the details thereof do not enter into the present invention, this frame being hidden in the view shown in Figure 1, but of which such portions are shown in certain of the other figures, as are necessary to disclose the invention.

Referring to Figure 1, particularly, the upper frame structure supports a central hanging oven 8 having a front door 9 with handle 10, and a flat working top 11, said oven being flanked on either side by cooking tops which include the plate 12 with transversely arranged burners 14, preferably formed integral so that they may be handled as a unit. The ends of the stove are provided with frame concealing and finishing plates 14', while the face plates 15 which flank the central oven door 9 serve either as doors or the fronts of drawers to afford access to the space beneath the burners 14, handles 16 being provided for operating the same. Since the drawer structure just referred to is not really material to the present invention, it need not be shown or further described.

At the rear of each cooking top is a vertical splashers back 17, between which is provided a

space to accommodate a broiler construction designated generally at 18. This broiler which is shown in its vertical inoperative position in Figure 1, and in full lines in Figure 2, is adapted to be swung in a vertical plane to the full operating and horizontal position as shown in dotted lines in said Figure 2.

Specifically, the broiler comprises a rectangular shallow housing 24 including a back plate 20 and side, top and bottom marginal walls 21, the remaining or open front being adapted to be covered or uncovered through the medium of a pair of outwardly swinging doors 22 having upper and lower pivotal pins 23 spaced slightly inwardly from the side walls. Arranged within the housing 24 is a broiler burner 25 supported upon each side through the medium of a pair of parallel brackets 26 and 27 the former being pivoted at 28 to a portion of one of the transverse elements of the top frame 6 as shown in Figure 4, and at a point intermediate the front edges of the body top as shown more clearly in Figure 2, the axis of movement being positioned a slight distance below the stove top surface.

The other bracket 27 functions also to supply gas to the burner 25 with which it preferably forms an integral part, the bracket being in the form of a hollow arm, the lower end of which swivels or turns upon a gas nozzle 29 passing through the mixer hub 30 thereof, the nozzle 29 and pivot 28 of the bracket 26 being of course coaxial.

As a further means of support for the hollow bracket 27, it may be provided upon its side with a cast stub-shaft or spud 31 having its pivotal bearing in one of the top frame members 6.

The gas supply pipe 32 is provided with a valve body 33 having therein a valve 34 normally held to its seat by a spring to close the flow of gas from the source of supply to the broiler burner 25 through its hollow bracket arm 27, when the broiler housing is in inoperative position as shown in Figure 2. For the purpose of automatically opening the valve 34 when the broiler casing is swung into the elevated horizontal dotted line position shown in Figure 2. The hollow bracket arm 27 is provided adjacent its pivotal point with a rigid finger 35, which engages a valve stem 36, pressing it against the action of said valve spring to unseat the valve 34, thus allowing gas to flow to the burner. Lowering of the casing, of course, permits the valve to automatically close.

The plane intermediate working top 11 is provided at its sides with slots 37, through which move the brackets 26 and 27 when the broiler casing is raised and lowered, said brackets when in horizontal position having their upper exposed faces substantially flush with said working top 11 as shown in Figure 2, and said faces may preferably be enameled or decorated as desired to harmonize with the finish of the adjacent surface.

As shown more clearly in Figure 2, the broiler casing when in lowered position is disposed to the rear of the stove body, so that as previously explained, the doors are in a plane substantially with that of the splashers backs, the intermediate portion of the back of the stove to the rear of the oven being slightly recessed as at 38 to permit positioning of said casing so that said plane arrangement is afforded. When the casing is in such lowered position, the bracket arms 26 and 27 rest upon shoulders 39 formed by or with the upper edge of the back stove plate

40, the latter being notched as at 41 a distance substantially the thickness of said bracket arms. It will be clearly observed that the upper ends of the bracket arms join with the burner at a point to the rear of the center of gravity which lies considerably forward of the pivotal axis of said arms, by which arrangement, the entire broiler structure is supported in raised and operative position through its unbalanced weight which tends to maintain it in a forward direction until positively and manually swung rearwardly. If desired any suitably counterbalancing means may be employed to assist the action of gravity. Approximately one-third only of the transverse length of the casing lies to the rear of the point of the point of junction of the bracket arms with the burner and it is this portion only which rests behind and is concealed by the rear of the stove back of the oven as is clear in Figure 2.

The doors are each provided with lining sheets to which are secured parallel ribs 42 which serve as supporting means for a broiler pan or sheet 43 which may be maintained in proper position relative to the burner thereabove at the desired elevation. These doors are maintained in position when the broiler is in use through gravity and are prevented from abnormal lateral movement outwardly from substantially vertical parallel relation on account of the bracket arms 26 and 27 which would act as stop means. These doors form two side walls of the broiler compartment while the third or rear wall is constituted by a gravity actuated plate 44, hinged at 45 to the rear wall of the casing. The doors are provided with handles 46, while the broiler is provided with an actuating handle 47.

Assuming the broiler is in operating position as shown in dotted lines in Figure 2 and full lines in Figure 4, and it is desired to move it to inoperative position: The broiler pan 43 is removed, the doors 22 swung inwardly upon their pivot pins to close the casing, and the entire casing then rocked on its pivotal bracket arms to the position of rest, shown in full lines in Figure 2, the rear plate 44 falling by gravity behind the stove. At the same time, the finger 35 releases the valve 34 which closes automatically by spring action to shut off the flow of gas from the source of supply to the burner. The housing 24 may be rigidly supported upon the burner by any suitable means, but preferably through the medium of studs 48 carried by the upper ends of the brackets 26 and 27, which studs may be threaded at their ends which pass through openings in the side walls 21 and receive nuts or caps 50.

What is claimed is:

1. A cooking apparatus of the class described comprising a stove body having an upper operating surface, a swingable broiler therefor, comprising a housing having an open face side, a burner mounted within said housing, doors mounted upon the housing and adapted to close or open said face side, and utensil supporting means upon the inner faces of said doors adapted to cooperate when the broiler is in elevated operative position to maintain a utensil in cooking relation to the burner.

2. A cooking apparatus of the class described, comprising a stove body having an upper operating surface, a swingable broiler associated therewith and adapted to be moved from a vertical position of rest at the rear of the stove body to a horizontal cooking position above the said

upper operating surface, said broiler comprising a box-like housing having an open front face, a broiler burner mounted within said housing, doors pivoted on said housing, for covering said burner when in inoperative vertical position, or exposing said burner when the broiler is in elevated horizontal position, means upon the inner faces of said doors for supporting a utensil in cooking relation to said burner, said doors forming two sides of a broiling space, and a plate hinged at the rear of said housing and forming a third side of said broiling space.

3. A cooking apparatus of the character described comprising a stove body having an upper working surface, a pair of parallel broiler supporting members, each pivoted at one of its ends to a portion of said stove body adjacent the top and movable transversely thereof and at a point intermediate the front and rear edges of said upper working surface, one of said parallel supporting members being in the form of a conduit, a broiler housing carried by said supporting members and disposed perpendicular thereto, a burner carried by one of said supporting members, and arranged within said broiler housing, a pair of doors hinged on said housing over the open face thereof and adapted when the broiler housing is in elevated position, to hang in parallel relation, utensil racks on the inner faces of said doors, and a plate hinged at the rear of said broiler housing and adapted to cooperate with said doors to form side and rear walls of a broiler space below the said burner.

4. A cooking apparatus of the character described, comprising a stove body having an upper working surface, a pair of parallel broiler supporting members, each pivoted at one of its ends to a portion of said stove body adjacent the top and movable transversely thereof, and at a point intermediate the front and rear edges of said upper working surface, said upper working surface having a pair of parallel transverse slots for the reception of said parallel broiler supporting members when in inoperative position, a shallow rectangular broiler housing carried by the oppo-

site ends of said broiler supporting members, one of said parallel supporting members being in the form of a gas conduit, a broiler housing carried by said supporting members and disposed perpendicular thereto, a burner carried by one of said supporting members, and arranged within said broiler housing, a pair of doors hinged on said housing over the open face thereof and adapted when the broiler housing is in elevated position, to hang in parallel relation, utensil racks on the inner faces of said doors, and a plate hinged at the rear of said broiler housing and adapted to cooperate with said doors to form side and rear walls of a broiler space below the said burner.

5. A cooking apparatus comprising a range body having an upper working surface including a burner section and a smooth top section, a back splash at the rear of said burner section, a vertically swingable broiler adjacent said burner section and movable over said smooth top section, said broiler comprising a rectangular housing having movable burner concealing front doors which when said broiler is in inoperative vertical position at the rear of said range body lie in substantially the same vertical plane with said back splash, and pivoted supporting brackets for said broiler.

6. A cooking apparatus comprising a range body having an upper working surface, a vertically swingable broiler movable over said working surface and including a housing, a burner therein, doors for the front of said housing for covering said burner when in inoperative position, brackets for said broiler pivoted on said range body intermediate the front and rear edges thereof and adjacent the top, one of said brackets being in the form of a gas conduit connected with said burner, pivoted supports for said brackets, gas supply means, the pivotal supports for the gas conduit bracket comprising a gas nozzle coaxial therewith.

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