

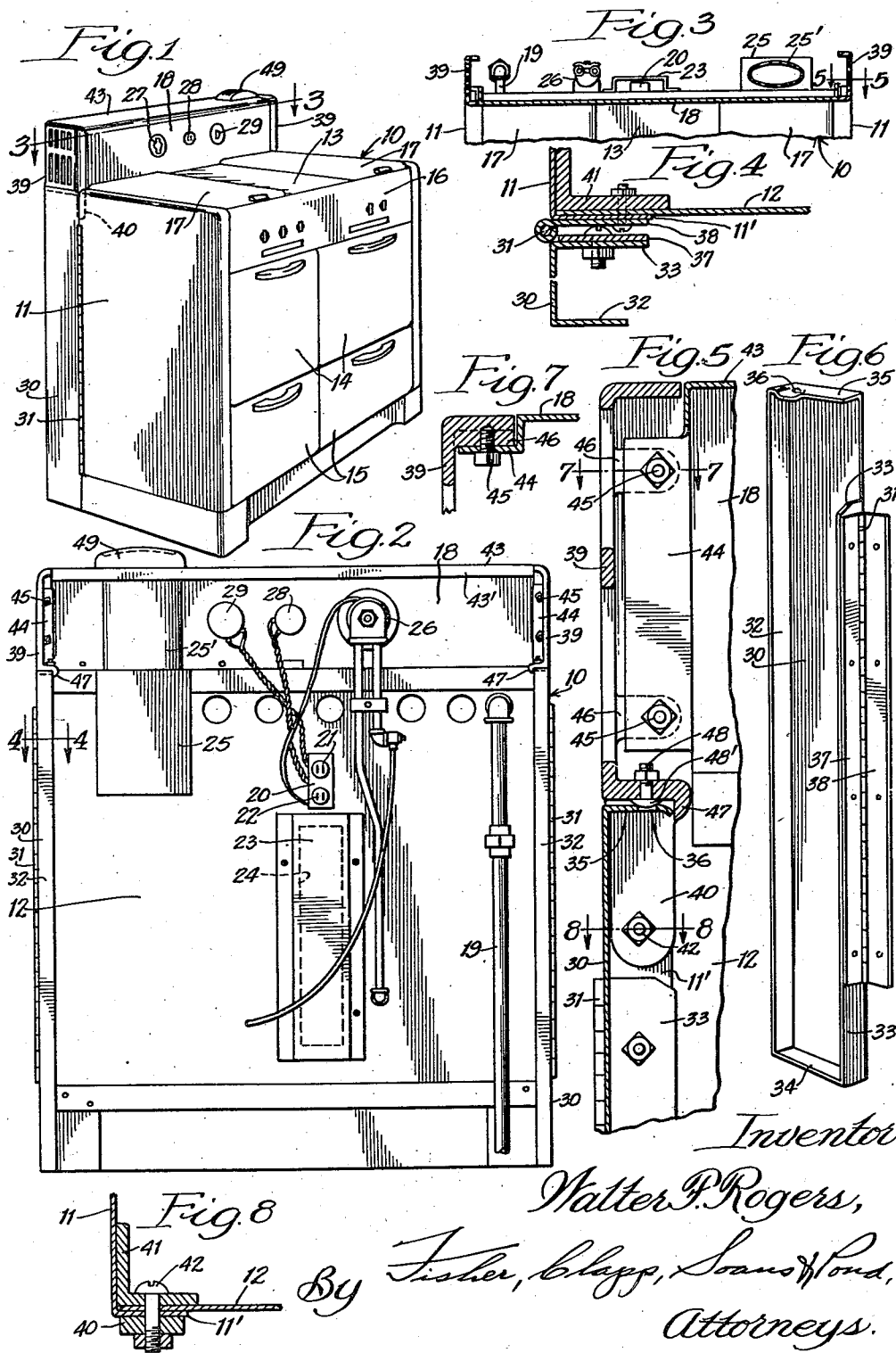
Dec. 31, 1940.

W. F. ROGERS

2,226,834

RANGE CONSTRUCTION

Filed Dec. 17, 1938



Inventor:
Walter F. Rogers,
By Fisher, Clapp, Soans & Bond,
Attorneys.

UNITED STATES PATENT OFFICE

2,226,834

RANGE CONSTRUCTION

Walter F. Rogers, Oak Park, Ill., assignor to
Crown Stove Works, Cicero, Ill., a corporation
of Illinois

Application December 17, 1938, Serial No. 246,324

3 Claims. (Cl. 126—39)

This invention pertains to the general art of stoves and ranges. The modern type of cooking range is provided with service equipment comprising numerous instruments, such as automatic oven heat regulators, oven flues, electric clocks and lamps, electric switches and outlets, time-controlled heat alarms and shut-offs, etc., and these instruments are usually mounted on the rear side of an upright fence or splash-board on the rear of the range top. Also, other service equipment, such as the gas supply pipe to the burners, the electric leads to the switches of electrically operated instruments, service opening covers, utility outlets, etc., are usually mounted on the back wall of the range below the fence or splash board. The presence of these devices on the back of the stove makes it impossible to set the latter snugly against a kitchen wall, so that they are more or less visible from the sides and top of the range and detract from the appearance of the latter; this disharmonious effect being most noticeable and pronounced in the current cabinet type of rectangular stoves which present neat smooth flat solid side and front walls and tops.

The main object of this invention is to improve the artistic appearance of stoves and ranges of this type, and this I accomplish by the provision of means for effectively concealing these instruments and their leads from view when the stove or range has been installed against a wall of the kitchen or other room in which it is used. In the form of the invention herein disclosed, this concealing means takes the form of a pair of doors that are vertically hinged to the rear vertical corners of the range body and, when closed, cover the openings or gaps between the side walls of the range and the room wall against which the range is placed. In the preferred form of the invention the concealing effect is heightened and made more complete by a top hood or cover member comprising a flat horizontal panel extending rearwardly of the top longitudinal edge of the fence or splash board, and vertical end walls that register with the tops of the doors when the latter are closed. The horizontal panel closes the gap between the top of the fence and the room wall, and the end walls close the gaps between the ends of the fence and the room wall. Thus the doors and the hood together completely hide from view the instrument equipment on the back of the fence and the back wall of the range.

A practical and approved embodiment of the invention is illustrated in the accompanying drawing, in which—

Fig. 1 is a front perspective view of a cabinet type of range equipped with my present improvements.

Fig. 2 is a rear elevation of the same.

Fig. 3 is a plan section on the line 3—3 of Fig. 1, showing also a fragment of the range top.

Fig. 4 is an enlarged cross-section through one of the door hinges, on the line 4—4 of Fig. 2.

Fig. 5 is an enlarged vertical section through a fragment of the top wall and one end wall of the hood and the upper portion of a door, showing a stop and a snap latch for the door.

Fig. 6 is an inner perspective elevation of one of the doors and its attached hinge.

Fig. 7 is a sectional detail taken on the line 7—7 of Fig. 5.

Fig. 8 is a sectional detail taken on the line 8—8 of Fig. 5.

The range body is designated as an entirety by 10, and includes flat vertical side walls 11, a back wall 12 and a flat horizontal top 13 containing the usual burner grid openings (not shown). Other conventional features, such as oven doors 14, tray fronts 15, combustion chamber front panel 16, and hinged burner lids 17 are or may be all as usual in this type of range and form no part of the present invention. Mounted on the rear of the range top 13 is the usual vertical fence or splash board 18 which, in ranges of this type, also serves as an instrument board.

By reference to Fig. 2 it will be seen that the rear side of the fence 18 and of the rear range wall 12 are quite fully occupied by instruments of various sorts and leads and controls thereof that project more or less rearwardly of the back of the range. For examples, the gas supply pipe 19 leads through the back wall 12 to the burner manifolds. On the back wall 12 is also mounted a block 20 carrying a pair of utility sockets 21 and 22, the cover 23 of a hand hole 24 in the back wall, and the lower section 25 of an oven flue. On the fence 18 are mounted an oven regulator 26 the valve of which is operated by a knob 27 projecting through a hole in the fence, an outlet socket 28, which may serve an overhead lamp (not shown), and an oven light control switch 29. On the rear of the fence is also mounted the upper section 25' of the oven flue.

With the particular characters and numbers of these various range accessories this invention is not concerned; but, as before stated, they prevent the back of the range from lying snugly against the wall of the room, and consequently they present a rather unsightly and disharmoni-

ous aspect, especially from the sides of the range.

Turning now to those features in which the present invention resides, 30 designates as an entirety each of a pair of relatively tall and narrow doors that are mounted by long piano hinges 31 on the rear vertical corners of the range body. One of these doors, with its hinge attached thereto, is shown in isolated detail in Fig. 6. This door has a full length rectangular flange 32 on its free vertical edge, a similar but shorter flange 33 on its hinged vertical edge, a bottom rectangular flange 34, and a top wall or flange 35 in which is formed a hole 36. The flange 33 is bolted to one leaf 37 of the hinge, while the other leaf 38 of the hinge is bolted to the back wall 12 of the range body. These flanges, apart from other functions, stiffen and reinforce the sheet metal panel of the door.

The hood or cover that conceals the instruments from above the range and from the ends above the doors 30 is preferably constructed as follows. 39 designates each of a pair of vertical end plates, which may consist of castings, having the height of the fence 18 and located above and flush with the doors 30 when the latter are closed. Continuous with the lower front corner of each plate 39 is a depending leg 40 that is attached to a vertical corner member 41 (Fig. 8) of the range frame by a bolt 42, this latter also passing through the back plate 12 and through a flange 11' of the side wall 11 that overlaps the vertical edge of the back plate. 43 designates a horizontal flat sheet metal plate or panel that forms the top wall of the hood or cover and may be made as an integral rearward extension of the upper edge portion of the fence 18. For stiffening purposes its rear free edge has a depending flange 43'. Integral with each end of the fence 18 is a rearwardly offset vertical flange 44 (Figs. 5 and 7) that is secured by machine screws 45 to attachment lugs 46 on the end plate casting 39. A depending lug 47 (Figs. 2 and 5) on the inner edge of the lower horizontal wall of the end plate casting 39 forms a stop for the top flange 35 of the door 30. In said horizontal wall of the end plate casting 39 is mounted a stud 48 having a rounded head 48' that cooperates with the hole 36 in the door flange 35 to form a snap latch for the door. In the top wall 43 of the hood is an opening that registers with the upper end of the oven flue section 25', and over this opening is mounted a slotted flue cap 49.

As shown in Fig. 3, the rear vertical edges of the doors and hood lie rearwardly of all the instrument equipment on the back of the range body and fence, so that when the range is set in place with its rear substantially in contact with a wall of the kitchen the instrument equipment, except for the valves, switches, outlets, etc. that may be mounted in the fence and are operated from the front of the latter, are wholly con-

cealed from view, thus enhancing the appearance of the range.

The instrument concealing means above described also substantially reduces the amount of dust and dirt that can settle on the concealed parts, and the hood panel 43 also forms a convenient shelf for the temporary support of cooking utensils and the like.

Structural variations and modifications may be resorted to within the scope and coverage of the claims, without departing from the invention or sacrificing any of the benefits and advantages thereof.

I claim:

1. The combination with a cooking range having vertical side walls, of a fence on the rear of its top formed with rearwardly offset vertical flanges on its ends, and a hood comprising vertical plate castings disposed in the vertical planes of said side walls attached at their lower ends to the range body and having inwardly extending lugs to which said flanges are attached, and a horizontal flat sheet metal plate spanning the space between the tops of said castings and integral with the top edge of said fence.

2. The combination with a cooking range having a fence mounted on the rear of its top, of doors vertically hinged on the rear corners of the range body and adapted, when closed, to conceal from view at the sides of the range service equipment mounted on the back wall of the range, and a horizontal hood spanning the space between the tops of the closed doors and concealing from view at the top and sides of the range service equipment mounted on the rear of said fence; said hood comprising vertical end plate castings mounted on the range body and formed with attachment lugs on their inner sides, and a horizontal sheet metal panel spanning the space between the tops of said castings, and said fence having rearwardly offset vertical flanges fastened to said attachment lugs.

3. The combination with a cooking range having a fence mounted on the rear of its top, of doors vertically hinged on the rear corners of the range body and adapted, when closed, to conceal from view at the sides of the range service equipment mounted on the back wall of the range, and a horizontal hood spanning the space between the tops of the closed doors and concealing from view at the top and sides of the range service equipment mounted on the rear of said fence; said hood comprising vertical end plate castings bearing depending legs bolted to the rear wall of the range body, said castings extending from the tops of the closed doors to the top of the fence, and a horizontal panel spanning the space between the tops of said castings, and said fence being attached at its ends to the inner sides of said castings.

WALTER F. ROGERS.