Nov. 6, 1956 G. C. PEARCE 2,769,440

DOMESTIC APPLIANCE

Original Filed Sept. 1, 1945 4 Sheets-Sheet 1

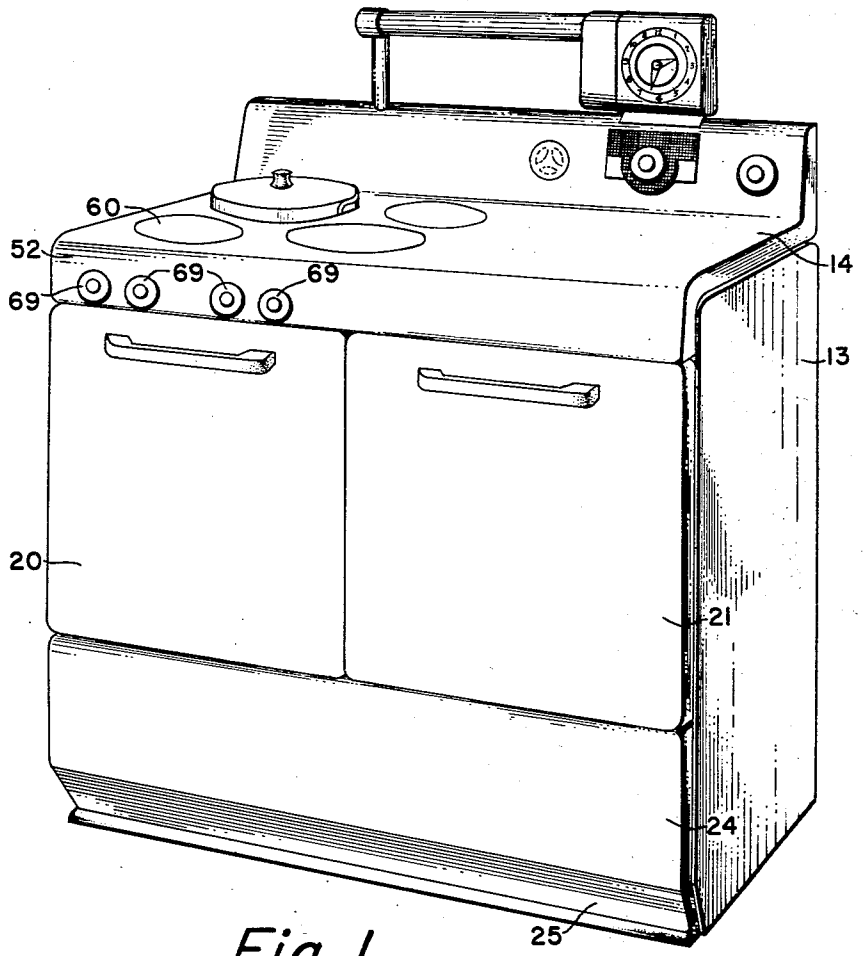



Fig. 1

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DOMESTIC APPLIANCE

Original Filed Sept. 1, 1945 4 Sheets-Sheet 2

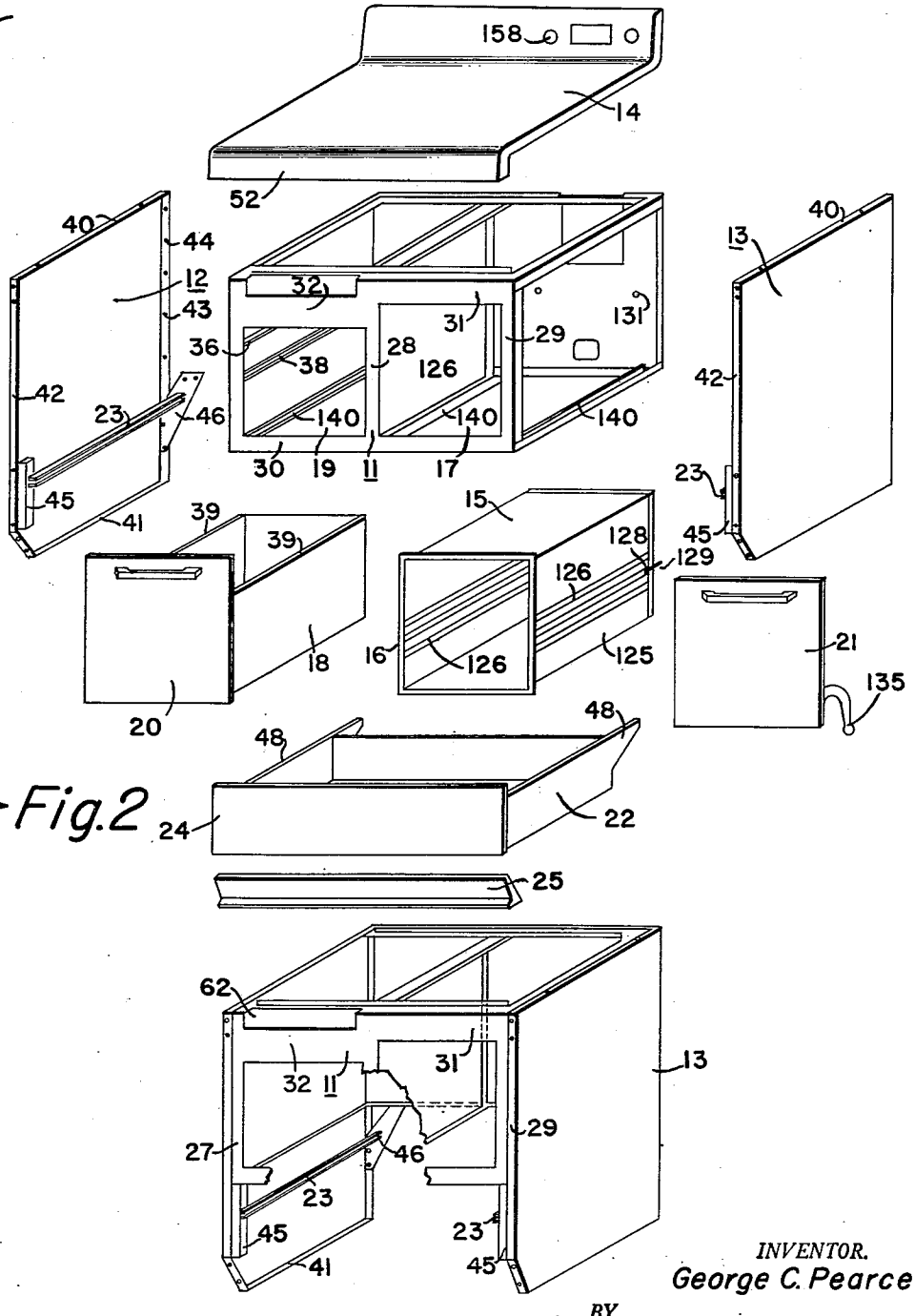



Fig. 2

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DOMESTIC APPLIANCE

Original Filed Sept. 1, 1945 4 Sheets-Sheet 3

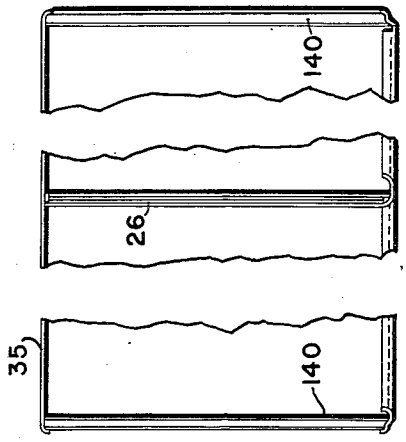



Fig. 6

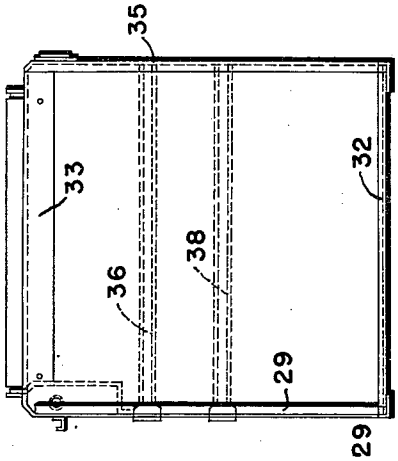



Fig. 4

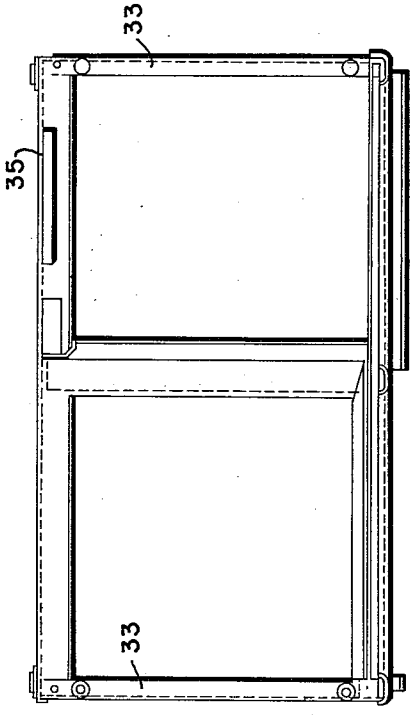



Fig. 5

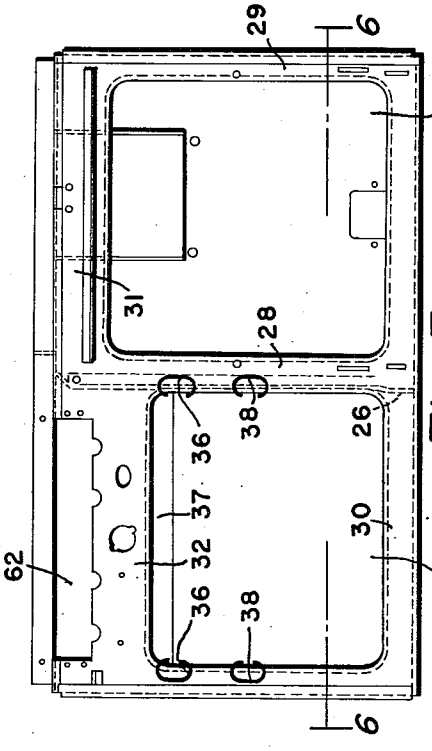



Fig. 3

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DOMESTIC APPLIANCE

Original Filed Sept. 1, 1945 4 Sheets-Sheet 4

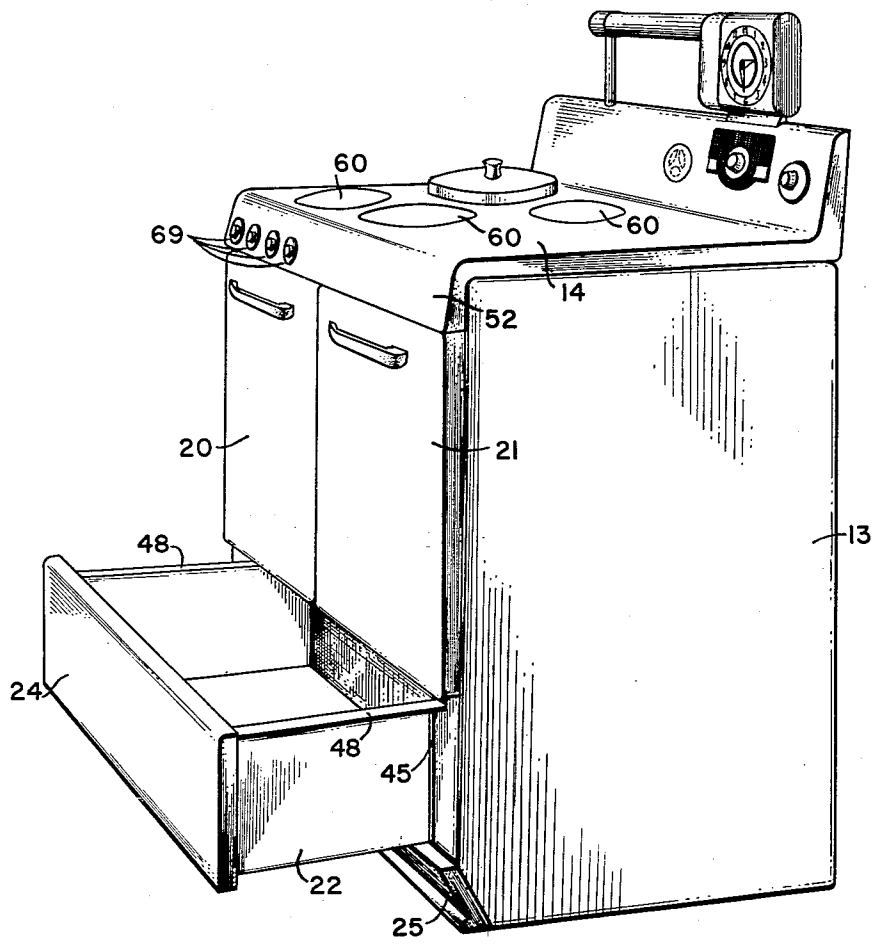



Fig. 7

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2,769,440

# DOMESTIC APPLIANCE

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Original application September 1, 1945, Serial No. 613,982. Divided and application April 27, 1951, Serial No. 223,191, now Patent No. 2,632,434, dated March 24, 1953. Again divided and this application October 21, 1952, Serial No. 315,901

2 Claims. (Cl. 126—39)

This application relates to a domestic appliance and more particularly to ranges. This application is a division of my copending applications S. N. 613,982 filed September 1, 1945, now Patent No. 2,632,434, and S. N. 223,191 filed April 27, 1951, now abandoned.

An object of this invention is to provide a range in which a substantially rectangular box-like frame is provided, to which said panels, a cooking top, an oven liner, an oven door, and other parts may be attached to form the completed range.

It is another object of my invention to provide a range construction in which all the parts which are exposed on the top, sides and front of the range are so constructed in simple flat shape so that they can be coated with a minimum of processing difficulties.

It is another object of my invention to provide a range construction in which all the parts exposed on the top, sides and front of the range can be readily removed and replaced if the finish is damaged.

It is another object of my invention to so locate the exposed simple flat surfaced exterior parts so that they will completely cover the top front and sides of the range and completely conceal the more complicated interior parts and the frame and structural parts of the range which cannot be readily removed and which cannot be readily provided with a satisfactory exterior finish and which present an unsightly appearance.

It is another object of my invention to make the doors and drawer front sufficient in size and to make them fit together well enough that they are the only exposed parts on the front of the range.

Further objects and advantages of the present invention will be apparent from the following description, reference being had to the accompanying drawings, wherein a preferred form of the present invention is clearly shown.

In the drawings:

Fig. 1 is a front view, in perspective, showing the completed range;

Fig. 2 is an exploded view, in perspective, of a large number of parts for the range;

Fig. 3 is a front elevation of the rectangular box-like frame;

Fig. 4 is a right-hand view of Fig. 3;

Fig. 5 is a top view of Fig. 3;

Fig. 6 is a cross-section, with parts broken away, taken along the line 6—6 of Fig. 3; and

Fig. 7 is a view, in perspective of the side of Fig. 1, with the lower drawer extended.

The range may comprise a main body, somewhat as shown in Fig. 1. The main body may be constructed on a rectangular box-like frame **11** to which other portions of the main body may be attached. Thus a left hand side panel **12** and a right hand side panel **13** may be attached to sides of the frame **11**, and may extend below the frame **11** a substantial distance to form the support for the range, or to surround the support for the range. The top panel **14** may be placed over



the frame **11** to form the cooking top. An oven liner **15**, which is flanged at **16** may be telescoped into the opening **17** of the frame **11**. If desired, a drawer **18** may be telescoped into the opening **19** of the frame **11**, and may carry an ornamental front plate **20**. An oven door **21** may be hinged on the frame **11** to close the liner **15**. A lower drawer **22** may slide on the channels **23**, and may be provided with an ornamental front **24**. A foot plate **25** may be attached to the two side panels **12** and **13** and may tie them together to form a rigid structure.

*Details of the rectangular box-like frame*

The frame **11** preferably is made of channel or angle iron structure, and preferably has a ground coat of enamel applied thereto. Channel or angle iron members are welded together substantially as indicated in Figs. 3 to 6. The partition **26** extends from the front to the rear, to retain insulation around the oven liner **15**. The front of the frame **11** includes upright channels **27**, **28** and **29**, a horizontal lower channel **30**, an upper right hand channel **31** and a left hand upper channel **32**. The right hand side of the frame **11** may include a lower channel **140** and an upper angle **33**. The left hand side of frame **11** may include a lower channel and upper angle similar to **140** and **33** respectively. The rear of frame **11** may include a panel **35**. Another channel **140** may extend adjacent the lower edge of panel **26**. All of these members are preferably firmly welded together to form a strong box-like rectangular frame.

Double channel members **36** are secured inside of the frame **11**, to the rear of opening **19**, which are adapted to support a drip plate **37**. Channel members **38** are also secured to the rear of opening **19** to support the drawer **18**, which is provided with suitable flanges **39** along its upper edge which fit into the channels **38**.

*Details of the side panels*

The side panels **12** and **13** are preferably provided with upper and lower flanges **40**, **41** and front and rear flanges **42** and **43**. Suitable openings **44** are provided in these flanges so that bolts or screws **44***a* may pass therethrough for attachment to the frame **11**, as indicated in the various views. Brackets **45** are bolted to the front flanges **42**, and gussets **46** are bolted to the flanges **43**. Channels **23** extend from the bracket **45** to the gusset **46**. The drawer **22** slides on the channels **23** through the medium of upper flanges **48** at the top of drawer **22**. The gussets **46** are secured to the rear panel **35** to brace the rear of the panels **12** and **13**. The foot plate **25** is bolted to the lower ends of the flanges **42** of the panels **12** and **13** to join the two panels rigidly at the front.

The top panel **14** is secured in place by any suitable means.

The top **14** may support a plurality of top heaters **60** and/or a top cooker. These may be of any well known construction, which are adapted to be supported by the top **14**, such as disclosed in McCormick Patent 2,320,041, granted May 25, 1943.

The front upper bar **32** is provided with an opening **62** to accommodate switch means for the heaters **60**. Suitable knobs **69** are provided at the front **52** of the range top panel **14** for controlling the top heaters **60**.

The oven liner **15** preferably is made in two or more sections welded together. The front sheet **125** has inward corrugations **126** which form grooves on the outside of the liner and shelf ridges on the inside of the liner. The sheet **125** is bent to form a square hollow tube with the flanges **16** welded or formed thereon at one end and no flanges at the other end. A metal cup, rectangular in cross-section, is telescoped over the rear

end of the tube **125**, and is welded thereto. Several pockets are thus formed where the grooves meet the edge of the cup, at **128**. Two or more J-shaped bolts **129** may be hooked over the edge of the cup at **128**, and these bolts **129** may extend through the rear plate **35**, where they may be drawn tightly by a nut and washers. In this manner the flange **16** is drawn up against the inner edges of the opening **17**. The bolts **129** pass through openings **131** in the plate **35**.

The top and bottom oven heaters may be of any suitable construction, and for example may be of the construction shown and described in McCormick Patent 2,314,592, granted March 23, 1943.

The door construction may be of any conventional design; but preferably is substantially as shown and described in Figs. 7 through 14 of McCormick Patent 2,378,421, granted June 19, 1945.

In assembling the range shown in Figs. 1 through 7, the members of the box **11** are first welded together. The panels **12** and **13** are attached to the box **11**. The foot plate **21** is secured to the panels **12** and **13**. The liner **15** is inserted at **17**. The door **21** is attached. The drawers **18** and **22** are inserted. This completes the assembly. The order of assembly is varied as desired or as is convenient.

While the form of embodiment of the invention as herein disclosed constitutes a preferred form, it is to be understood that other forms might be adopted as may come within the scope of the claims which follow.

What is claimed is as follows:

1. A range including a box shaped generally rectangular frame provided with a substantially vertical dividing wall extending substantially from top to bottom intermediate its ends to divide the interior of the frame into two compartments, support means at the ends of said frame extending to the floor, two doors located side by side closing the fronts of said two compartments and having their edges overlying front portions of said frame, a single bottom drawer extending entirely beneath said frame and said dividing wall between said support means and provided with a front having its end edges overlying said support means and having its upper edge extending substantially to but just out of contact with the lower edges of said two doors, and a range top extending over said frame, said frame extending across and being suspended by said side panels above said single bottom drawer and having the lowest portion of its center terminating above said single bottom drawer to provide a drawer opening extending continuously between said side walls.



2. A range including a box shaped generally rectangular frame provided with a substantially vertical dividing wall extending substantially from top to bottom intermediate its ends to divide the interior of the frame into two compartments, structural and ornamental side panels at the ends of said frame extending to the floor, two doors located side by side closing the fronts of said two compartments and having their edges overlying front portions of said frame, a single bottom drawer extending entirely beneath said frame and said dividing wall between said support means and provided with a front having its end edges overlying said support means and having its upper edge extending substantially to but just out of contact with the lower edges of said two doors, said side panels beneath said frame being provided with drawer guides for movably supporting said single bottom drawer, and a range top extending over said frame, said frame extending across and being suspended by said side panels above said single bottom drawer and having the lowest portion of its center terminating above said single bottom drawer to provide a drawer opening extending continuously between said side walls.

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