Nov. 19, 1935. J. GUTMANN 2,021,651

BUILT-IN GAS RANGE

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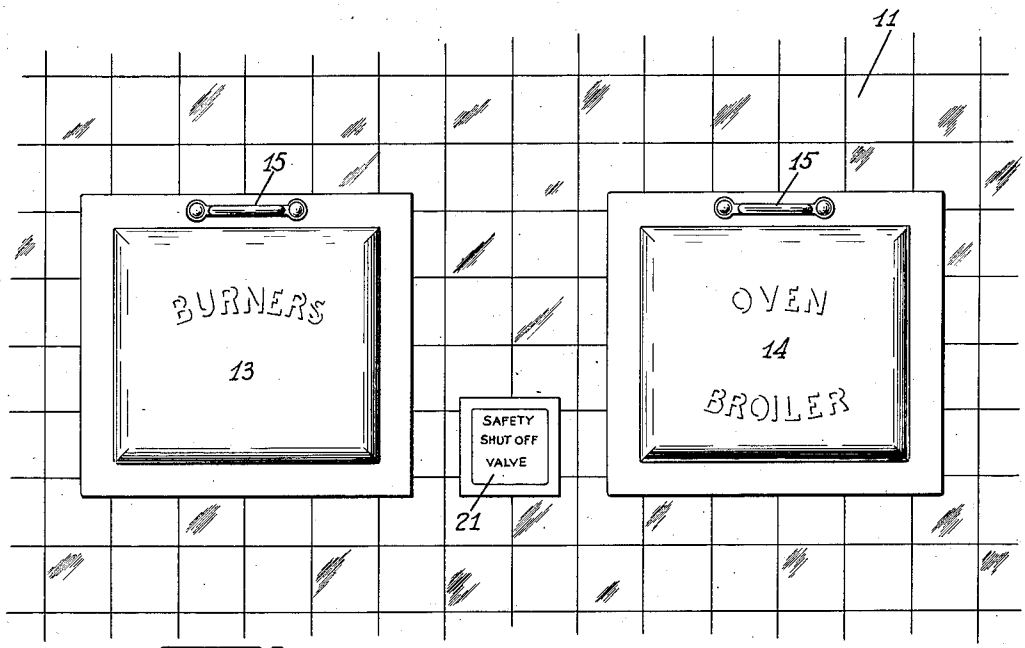



FIG. 1.

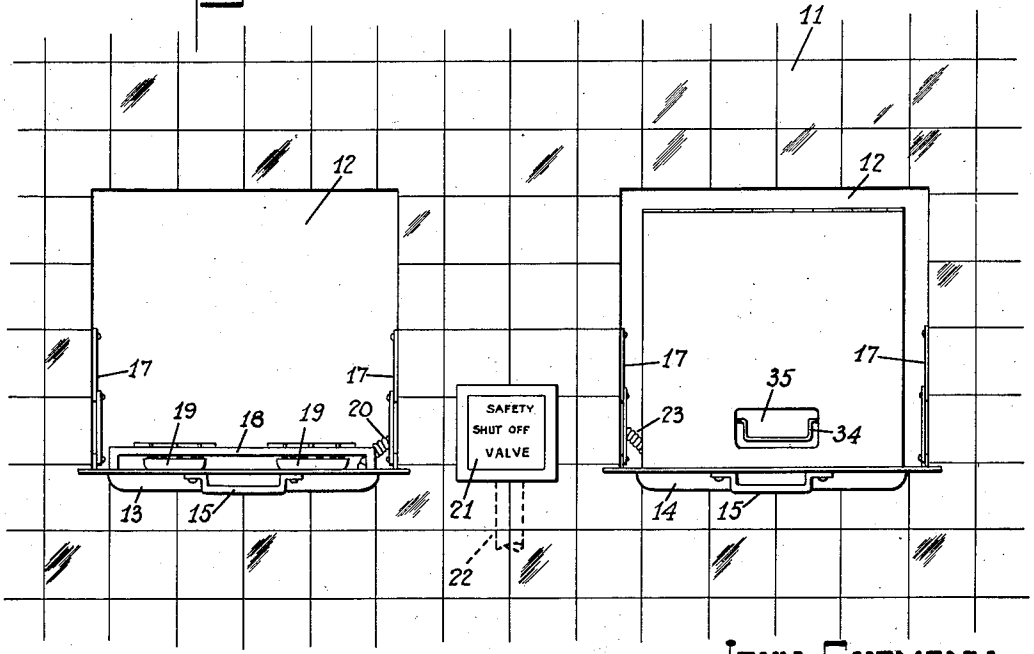



FIG. 2.

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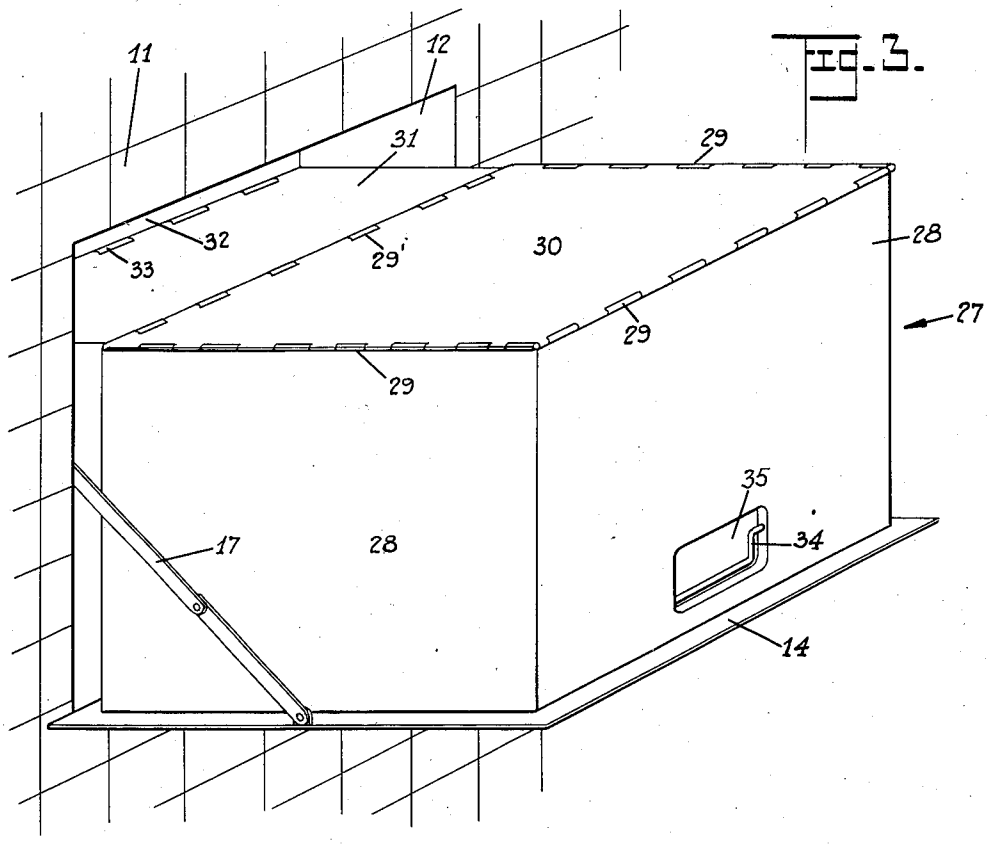
BY Maxwell E. Spear
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FIG. 3.



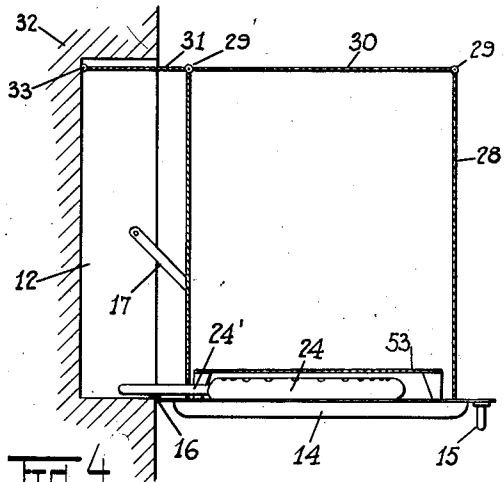




FIG. 4.

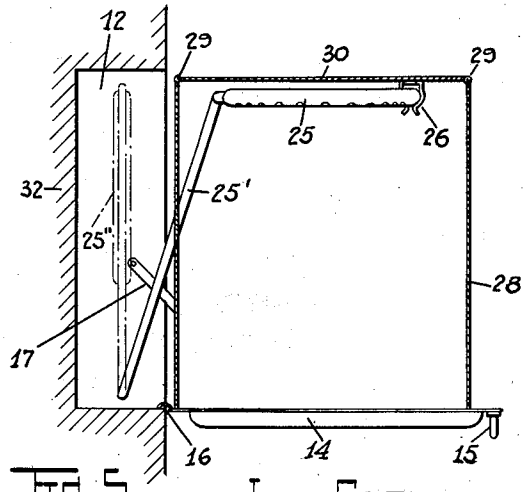



FIG. 5.

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Fig. 7

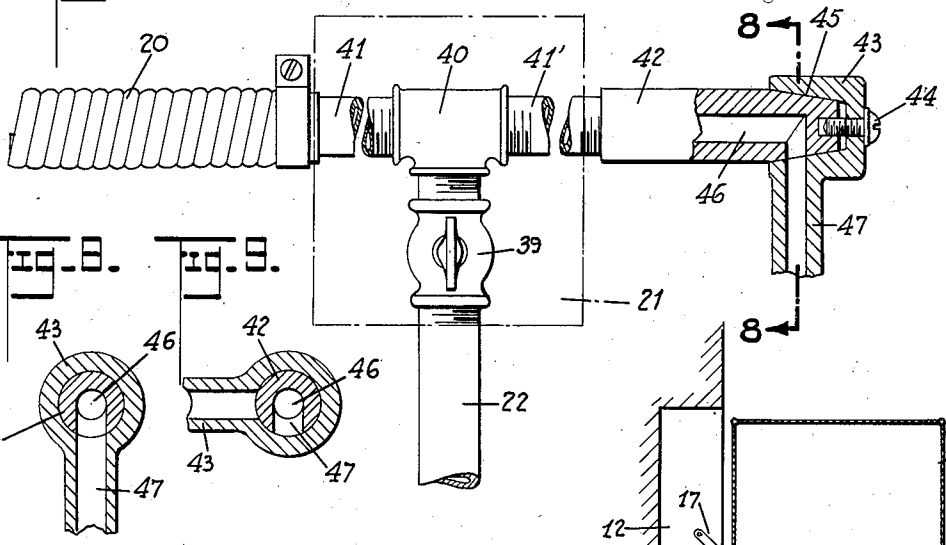



Fig. 8.




Fig. 9.



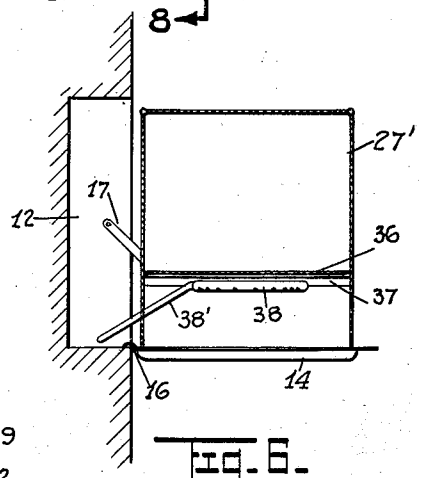




Fig. 6.

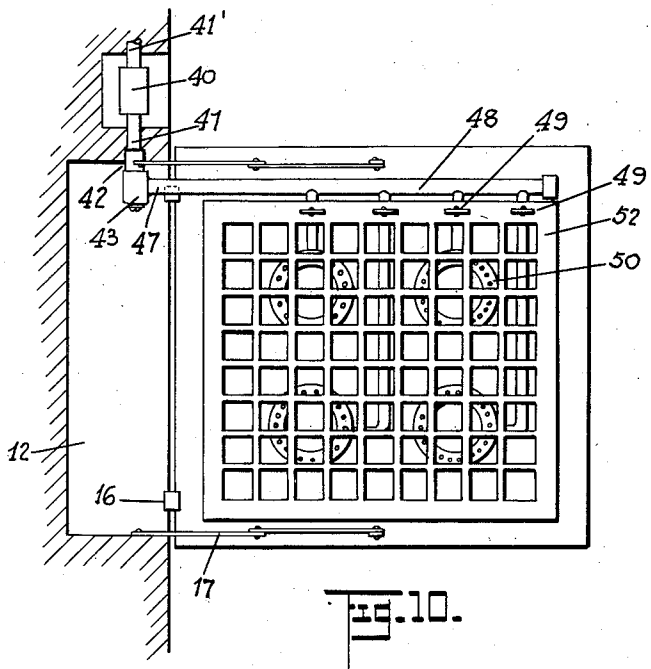



Fig. 10.

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Patented Nov. 19, 1935 2,021,651

# UNITED STATES PATENT OFFICE

2,021,651

## BUILT-IN GAS RANGE

John Gutmann, St. Albans, N. Y.

Application December 2, 1931, Serial No. 578,543

1 Claim. (Cl. 126—37)

This invention relates to improvements in gas ranges or gas stoves.

An object of the invention is in the provision of a built-in gas range or gas stove.

A further object of the invention is to provide a concealed gas range built in the conventional wall of a room and adapted for use in places where space is limited, such as, for example, kitchens, kitchenettes, lunch wagons, etc.

A further object of the invention is to provide a built-in gas range particularly adapted for use in apartment houses and apartment hotels, and wherein all the burners and stove elements are swingable into concealed position within a wall of the room, when not in use.

A further object of the invention resides in the provision of a concealed gas range comprising burners and oven elements disposed within a cabinet-like recess formed in a vertical wall, when the device is not in use, and which are adapted to be swung to operative position, when the device is made ready for use.

A further object of the invention is to produce a gas range for use in a kitchen by providing a cabinet-like recess in one of the walls of the room, a swingable door to cover the opening of the recess, and swingable and/or collapsible elements confined within the recess when the device is not in use and supported by the cover or door in horizontal extended position when made ready for use.

A further object of the invention is to provide in a built-in concealed gas range, automatic gas cut-off means.

A further object of the invention is to provide in such device a collapsible oven and broiler.

These and other objects which will become more apparent as the description progresses are obtained by the novel construction and combination of parts hereinafter described and shown in the accompanying drawings forming a material part of this disclosure, and in which:

Figure 1 is an elevational view of the front of one form of the invention, the doors being shown closed.

Figure 2 is a view similar to that shown in Figure 1, with the doors being shown in open position.

Figure 3 is a perspective view of the oven portion of one form of the invention, the door being shown in open position.

Figure 4 is a diagrammatic side-sectional view of Figure 3, showing a heating element reposed on the door and a collapsible compartment hinged to rear wall.

Figure 5 is a view similar to that shown in Figure 4 and showing heating elements at top and contained within a removable collapsible compartment.

Figure 6 is a view showing a modified form of the invention.

Figure 7 is an enlarged view of safety shut-off valve showing two forms of connections.

Figure 8 is a view taken along line 8—8 of Figure 7 looking in the direction of the arrows.

Figure 9 is a similar view with the connection in shut-off position.

Figure 10 is a plan view of a portion of a form of the device.

In the drawings, the numeral 11 represents a conventional vertical wall of a room which may be embellished on the outside with suitable tile, and the numeral 12 represents preferably rectangular cabinets or cabinet-like recesses formed in wall 11. Swingably attached to wall 11 by means of hinges 16 adjacent the recesses are doors 13 and 14, respectively, to cover the recesses.

The said doors are bulged outwardly to give additional depth to the cabinets 12 when the doors are closed, and are provided with suitable handles 15. Folding brackets 17 are provided for supporting the hinged doors in horizontal position. A plurality of gas burners 19 are arranged on the inside of door 13 and above these burners is a grating 18 which is secured to the said door in any suitable manner.

Between the recesses 12 there is provided a small opening in wall 11 to receive the safety shut-off valve 39 and its fittings. A removable cover 21 for such opening is provided. The valve 39 is connected at one end to a pipe 22 leading from the gas main supply (not shown) and is connected at its other end to a T coupling 40. (See Fig. 7).

Since the burners must be swung from an inoperative to an operative position and vice-versa, it becomes necessary to provide a flexible connection between the burners and the feed pipe. In Fig. 7, there are shown two preferable types of flexible connectors from coupling 40 to the burner manifold. A flexible tube 20 provided with a flexible sheath is shown connected at one end through the nipple 41 to the coupling or fitting 40, the other end of tube 20 being connected to the burner manifold, such, as for example, the pipe represented by numeral 48 in Fig. 10, and a similar flexible tube 23 (see Fig. 2), is shown, which is connected to the oven or broiler burner.

In lieu of the flexible tube 20 a swingable

jointed connection may be provided (see Figs. 7, 8, 9, and 10). In this type of connection a male member **42** is provided with a central bore **46** having a right angled turn, the member **42** being tapered at **45** which rotatably fits in a tapered hole provided in female member **43**. A screw **44** secures member 42 to member **43** but permits rotative movement of member **42** with relation to member **43**. Member **43** is provided with an extension **47** having a central bore which is in alinement with the right angled turn of bore **46** when the device is in operative position, but which is out of alinement therewith when the device is in inoperative position.

Thus, an automatic gas cut-off is provided. This extension **47** is connected to the burner manifold such as represented by the numeral **48**. The member **42** is connected to fitting **40** by means of the nipple **41'**.

As stated hereinabove, Fig. 7 shows two preferred connections, but any other suitable connections may be employed for the purpose intended. By way of illustration, Fig. 7 shows the flexible tube connection applied to the burner resting on door **13** and the swingable connection applied to the burner or burners for the oven or broiler which is supported by door **14**.

A chamber **27** or **27'** is provided for the oven or broiler. As shown in Figures 3 and 4, the chamber **27** comprises four sides **28** swingably connected to the top **30**, the front and lateral sides by means of the hinges **29** and the rear side by means of the hinges **29'**. The top **30** has an extension which projects within the recess **12** of wall **11** and is hingedly connected by means of hinges **33** at the rear of the recess. The front side has a recess **35** formed therein by pressing the material inwardly within which is rotatably supported a handle **34**. It can be readily seen that the sides of the chamber **27** may be easily collapsed and the top **30** swung downwardly so that the chamber in collapsed position may be confined within the recess **12**. As shown in Figs. 5 and 6, the chamber **27'** comprises four sides **28** which are hingedly connected to the door **30**. Since this chamber is not hingedly secured within the cabinet it may be removed and collapsed and then placed in the recess or cabinet **12**.

In Fig. 4 there is shown a burner **24** which is flexibly connected to the supply pipe in any suitable manner, this burner resting on the cover **14**. Over the burner **24** there is positioned a grating or pan **53** for the purpose of supporting the materials to be cooked. It can be readily seen that an oven compartment is thus provided.

In Fig. 5, the burner **25** is swingably connected to the feed pipe through the arm **25'**, the burner **25** being held in position by means of the clamp **26**. This arrangement provides a suitable broiler compartment. Since the burner **25** is swingably secured to the arm **25'** and the arm **25'** is swingably secured to the feed pipe, the burner and arm can be readily collapsed so as to be confined within the cabinet **12** as shown by the dotted lines indicated by the numeral **25''**.

Fig. 6 shows a modified form of the oven and broiler wherein the burner **38** is swingably secured to the arm pipe **33'**. The chamber **27'** is provided with a removable shelf **36** immediately above the burner **38**, the shelf being supported in position by means of the flanges **37** extending inwardly of the chamber **27'**.

The compartment above the burner may be used as an oven and the compartment below the burner may be used as a broiler.

Fig. 10 shows an arrangement of the burner **50** supported by the door. The supply of gas to the burners is controlled through the valves **49**.

From the foregoing description and annexed drawings, it can be seen that when the doors **13** and **14** are closed all the elements constituting the gas range or stove (except the said doors) are concealed from view, each door when in open horizontal position acting as a shelf to facilitate the utilization of the device. In lieu of utilizing the door as a shelf, an auxiliary member may be used for the purpose.

It will be thus seen that there is herein described apparatus in which the several features of this invention are embodied, and which apparatus in its action attains the various objects of the invention and is well suited to meet the requirements of practical use.

As many changes could be made in the above construction, and many apparently widely different embodiments of this invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

A heating device comprising a cabinet built in one of the walls of a room and having an opening at the front of the wall, a swingable door to cover the opening, means to support the door in outward horizontal position, a gas burner connected in the cabinet to a gas supply pipe located in the wall, said burner adapted to be swung outwardly, and a collapsible oven to cover the burner when the latter is swung outwardly and to be supported by the door when the latter is in horizontal position, said oven being swingably attached to the inside of the cabinet and adapted to fit within the cabinet when collapsed.

JOHN GUTMANN.