Feb. 9, 1960 T. E. PHILLIPS ET AL 2,924,212

WALL-MOUNTED BARBECUING DEVICE

Filed July 9, 1957

2 Sheets-Sheet 1

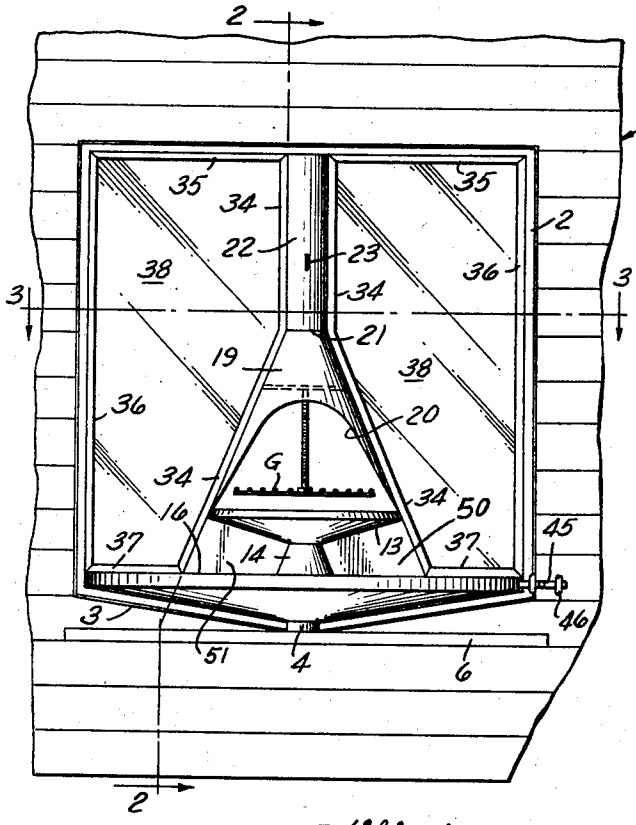


Fig. 1

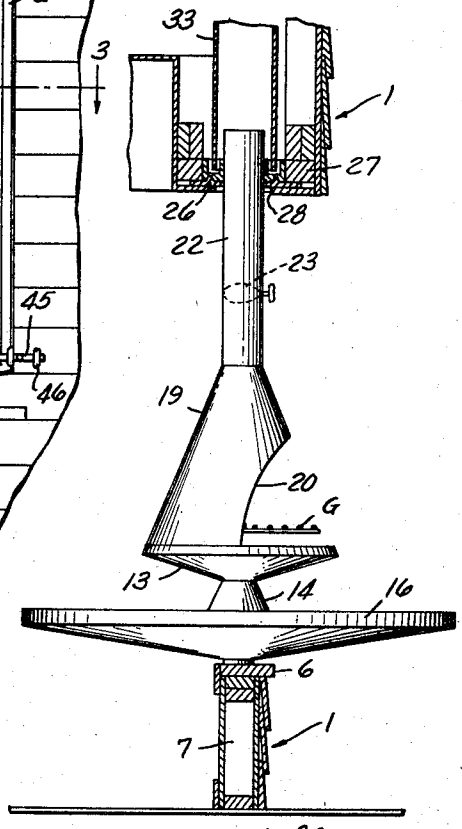


Fig. 2

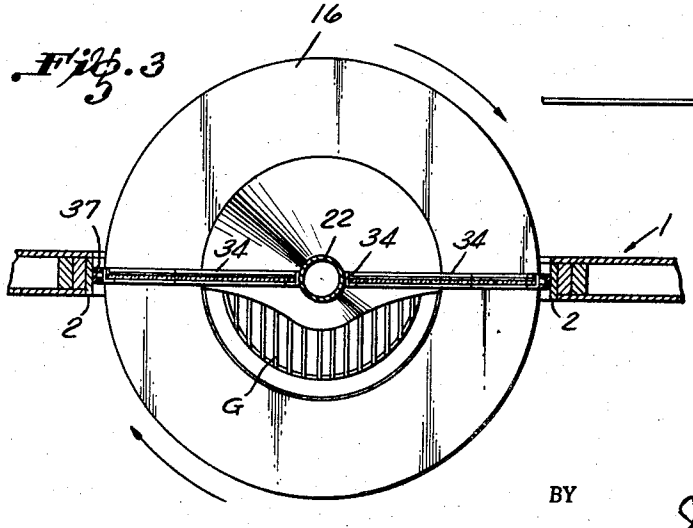


Fig. 3

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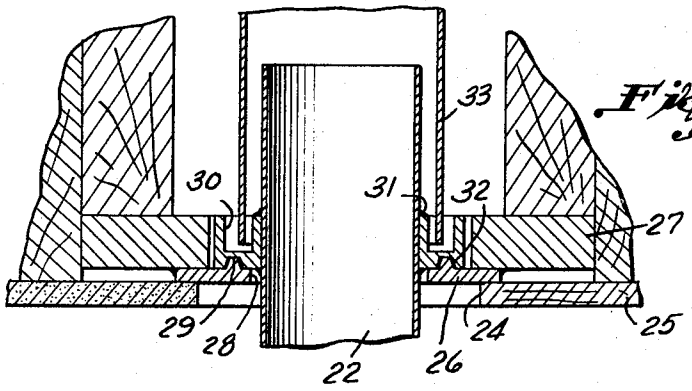


Fig. 4.

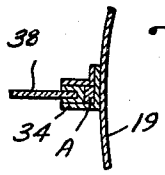


Fig. 6.

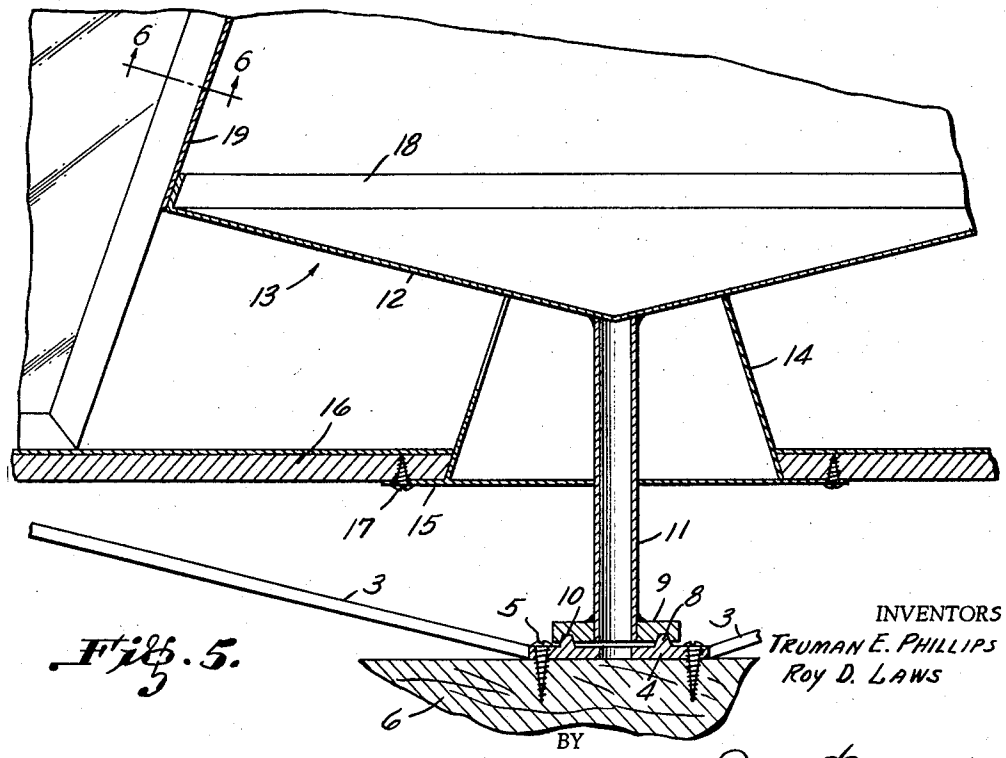


Fig. 5.

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WALL-MOUNTED BARBECUING DEVICE

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This invention relates to cooking devices and more particularly to a barbecuing device rotatably mounted in an opening in an outside wall of a dwelling and thereby alternately accessible from the interior or exterior of the dwelling.

One of the principal objects of the invention is the provision of a barbecue of the character described which provides, in a compact assembly of modernistic design, a serving table, fire pot, fire hood and smoke-stack, vertically centralized between two panes of glass and rotatable therewith as a unit within a wall-opening having the appearance of a conventional window.

Another object is to provide a device of this character which is of simple, durable and inexpensive construction, safe and efficient in operation and which can be readily installed in any wall of a building at a minimum of expense so far as labor costs are concerned.

The functional advantages of the invention are that in case of a sudden rain shower, for example, with the table set for outdoor serving and the fire exposed to the atmosphere, an attendant may quickly transpose the fire pot and table contents to the interior of the dwelling by merely rotating the assembly through 180° of a circle.

The foregoing and other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a fragmentary elevational exterior view of a wall of a building showing our rotary barbecue installed therein.

Figure 2 is a sectional side view taken approximately along the line 2—2 of Figure 1.

Figure 3 is a sectional top plan view taken along the line 3—3 of Figure 1.

Figure 4 is a fragmentary sectional detail view on an enlarged scale illustrating a pivotal mounting at the telescoped ends of the rotatable smoke-stack and a stationary smoke-stack.

Figure 5 is a view similar to Figure 4 illustrating the bottom pivotal support for the invention.

Figure 6 is a sectional detail view on an enlarged scale taken along the line 6—6 of Figure 5.

With continuing reference to the drawings, wherein for the purpose of illustrating the invention like reference numerals will designate like parts throughout the same, the reference numeral 1 in Figures 1 to 3 indicates generally a fragment of a wall of a building as viewed from the outside thereof and having a square or rectangular opening therethrough provided with a frame indicated at 2. The bottom end members 3 of the frame converge downwardly to a central portion 4 (see also Figure 5) secured as at 5 to a sill 6 built within the wall and supported by the usual studding 7 as shown in Figure 2. The central portion 4 is provided with an annulus 8 adapted to rotatably support a base 9 having a complementary downwardly opening annular groove 10

formed therein and thereby rotatably mounted upon the bearing 8. Secured to and extending upwardly from the base 9 is a shaft 11 to whose top end is secured the bottom wall 12 of a fire pot indicated generally at 13. A skirt 14 is secured concentrically to the bottom wall of the fire pot and flanged outwardly as at 15 at its bottom end to provide a support for a circular table top 16 to which the flange is secured by means of fastening screws 17. The table top may be provided with any suitable weather-proof, water repellent covering such as Formica or the like of any pleasing color or design.

The rim of the fire pot is provided with an inwardly tapering flange 18 to which is secured, by spot-welding or the like, the bottom end of a fire hood 19 provided with an access opening 20. The fire hood is of frusto-conical shape as shown and at its top end is secured as at 21 in any approved manner to the bottom end of a smoke-stack 22 provided with a damper 23. The smoke-stack (Figures 2 and 4) extends upwardly through an enlarged opening 24 in the ceiling 25 of a room, and the opening is covered with a bearing plate 26 welded to a standard underwriter's approved collar 27. The bearing plate has a central opening 28 therethrough and is provided with a concentric annulus 29 on its top surface. An annular channel member 30 is welded as at 31 to the smoke-stack 22 and provided on its bottom surface with an annular groove 32 with which the annulus 29 cooperates in providing a bearing for the smoke-stack as it rotates with its related parts which are rotatably mounted upon the bearing 8, as aforesaid. The rotatable smoke-stack 22 extends upwardly into a stationary smoke-stack 33 which also extends upwardly and to the exterior of the building.

As best illustrated in Figures 1 and 3, channel members 34 are secured by spot-welding or the like to opposite sides of the rim of the fire pot, the fire hood and the smoke-stack 22. Inverted channel members 35 extend laterally from the top end of the channels 34 and unite at their outer ends with vertical channel members 36 whose bottom ends unite with lateral channel members 37 secured to the table top 16 and whose inner ends are united with the bottom ends of the channels 34. Panes of glass 38 are secured about their perimeter by suitable mastic within the channels 34, 35, 36 and 37 and insulated (see Figure 6) from the fire pot and chimney by asbestos A within the channels 34. The outer edges of the channels 36 and the top edges of the channels 35 are provided with weather-stripping of any approved type for frictional engagement with the members of the frame 2.

From the foregoing it will be apparent that the table top 16, fire hood 19, smoke-stack 22 and panes of glass 38 are all rotatable as a unit by means of the top and bottom bearing members 26—30 and 4 and 9, respectively, from a position where the fire box and table setting are on the exterior of a building to a position where they are exposed to the interior thereof. To render the unit air-tight in either of the two positions just mentioned we provide, as shown in Figure 1, vertical plates 50 and 51 whose side edges are secured, by soldering or the like, respectively, to the channel members 34 and skirt 14 and whose top edges are secured to the underside of the fire pot 13 with their bottom edges cemented or otherwise suitably secured to the table top 16. Accordingly, when the unit is in either position smoke or cooking effluvia from the fire opening on one side of the wall will be sealed off from the other side thereof.

During rotation of the unit from one position to the other with the channel members 35 and 36 out of contact with the frame 2, said members and the panes of glass to which they are attached will be stabilized by the connection of members 35 with members 34 secured to the

smoke stack and to the fire pot, and by the connection of members 36 to members 37 secured to the table top.

For locking the unit as shown in Figure 1 against accidental or unintentional rotation we provide any suitable type of detent such as a locking bolt 45 slidably bracketed as at 46 to the wall 1 on the exterior thereof and also one of the interior. The bolts are engageable with apertures provided in the peripheral edge of the table top.

While we have shown a particular form of embodiment of our invention we are aware that many minor changes therein will readily suggest themselves to others skilled in the art without departing from the spirit and scope of the invention. Having thus described our invention what we claim is:

1. In combination with a wall and a ceiling, said wall having an opening therein, a sill carried by the wall below said opening, the bottom of the opening converging downwardly toward the center of the sill, a frame having top, side and bottom members fixedly secured within said opening, the bottom frame members converging into a bearing plate secured to the sill, a flat horizontal table top rotatably supported upon said bearing plate, a frusto-conical fire pot and a fire hood and a smoke-stack integrated into a vertically disposed unit superimposed upon and secured by the fire pot to the table top for rotary movement therewith, said fire hood having a fire opening therein in one side thereof, a bearing in said ceiling, the top end of said smoke-stack journalled in said bearing, vertical frames having one of their sides secured to the fire pot and to the smoke-stack at diametrically opposed sides thereof astride said fire opening, the bottom end of said frames secured to the top surface of the table top, the top and the other side of said frames normally in contact with the top and side members of the first-mentioned frame, panes of glass secured within said vertically disposed frames, vertically disposed plates in alignment with said panes of glass and secured to the underside of said fire pot, to said vertical frames at said one of their sides and to said table top, whereby smoke or cooking effluvia from the fire opening on one side of said wall will be sealed off from the other side, and whereby when said frames are rotated by the table top and fire pot and smoke-stack out of contact with said first-mentioned frame said vertical frame members and said panes of glass carried thereby will be stabilized by the securement of said vertical frames to the smoke-stack, fire pot, and table top.

2. In combination with a wall and a ceiling, said wall having an opening therein, a sill carried by the wall below said opening, the bottom of the opening converging downwardly toward the center of the sill, a frame having top, side and bottom members fixedly secured within said opening, the bottom frame members converging into a bearing plate secured to the sill, a frusto-conical fire pot elevated from and rotatably supported by said bearing plate, a flat horizontal circular table top disposed below the fire pot in spaced relation thereto and secured to the fire pot for rotation therewith, a frusto-conical fire hood integrated with the fire pot and having a fire opening therein, a vertical smoke-stack integrated with and in open communication with the first hood at the top end thereof, a bearing in said ceiling, the top end of said smoke-stack journalled in said bearing, vertical frames having one of their sides secured to the fire pot and to the smoke-stack at diametrically opposed sides thereof astride said fire opening, the bottom end of said frames secured to the top surface of the table top, the top and the other sides of said frames normally in contact with the top and side members of the first-mentioned frame, panes of glass secured within said vertically disposed frames, whereby when said frames are rotated by the table top and fire pot and smoke-stack out of contact with said first-mentioned frame said vertical frame members and said panes of glass carried thereby will be stabilized by the securement of said vertical frames to the smoke-stack, fire pot, and table top.

References Cited in the file of this patent

UNITED STATES PATENTS

852	Heermance	July 24, 1838
713,686	Reed	Nov. 18, 1902
866,273	Hama	Sept. 17, 1907
980,501	Doll	Jan. 3, 1911
984,598	Pendray	Feb. 21, 1911
1,204,266	Garrison	Nov. 7, 1916
1,406,037	Langford	Feb. 7, 1922
1,543,212	Kurrell et al.	June 23, 1925
2,350,948	Walker	June 6, 1944
2,471,375	Moseley	May 24, 1949

FOREIGN PATENTS

96,251	Austria	Mar. 10, 1924
367,448	Great Britain	Feb. 22, 1932