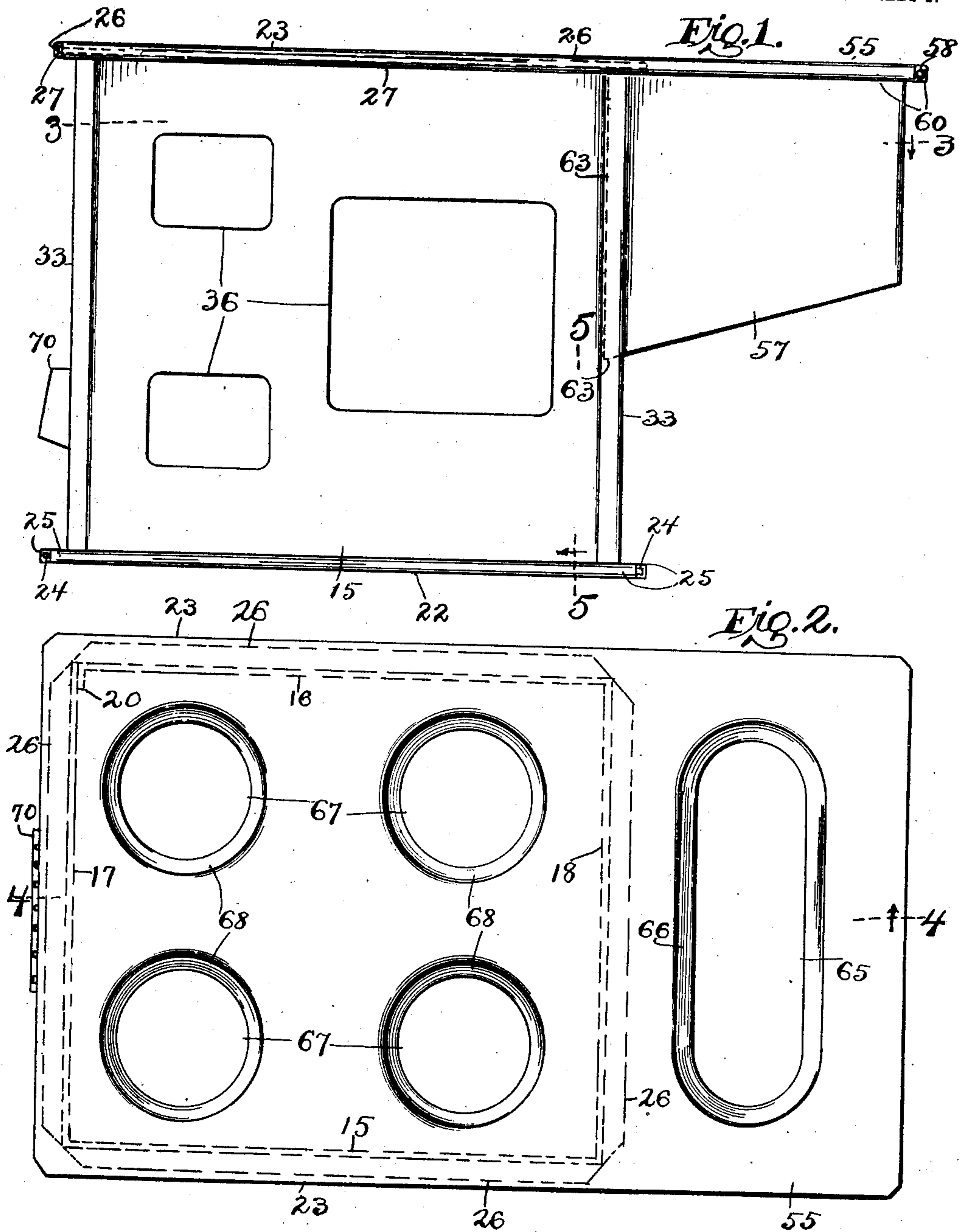


No. 826,598.

PATENTED JULY 24, 1906.

F. G. NICOLAUS.
TOY COOKING RANGE.
APPLICATION FILED JULY 28, 1904.

3 SHEETS—SHEET 1.



WITNESSES:

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B. C. Brown.

INVENTOR
Frederic G. Nicolaus

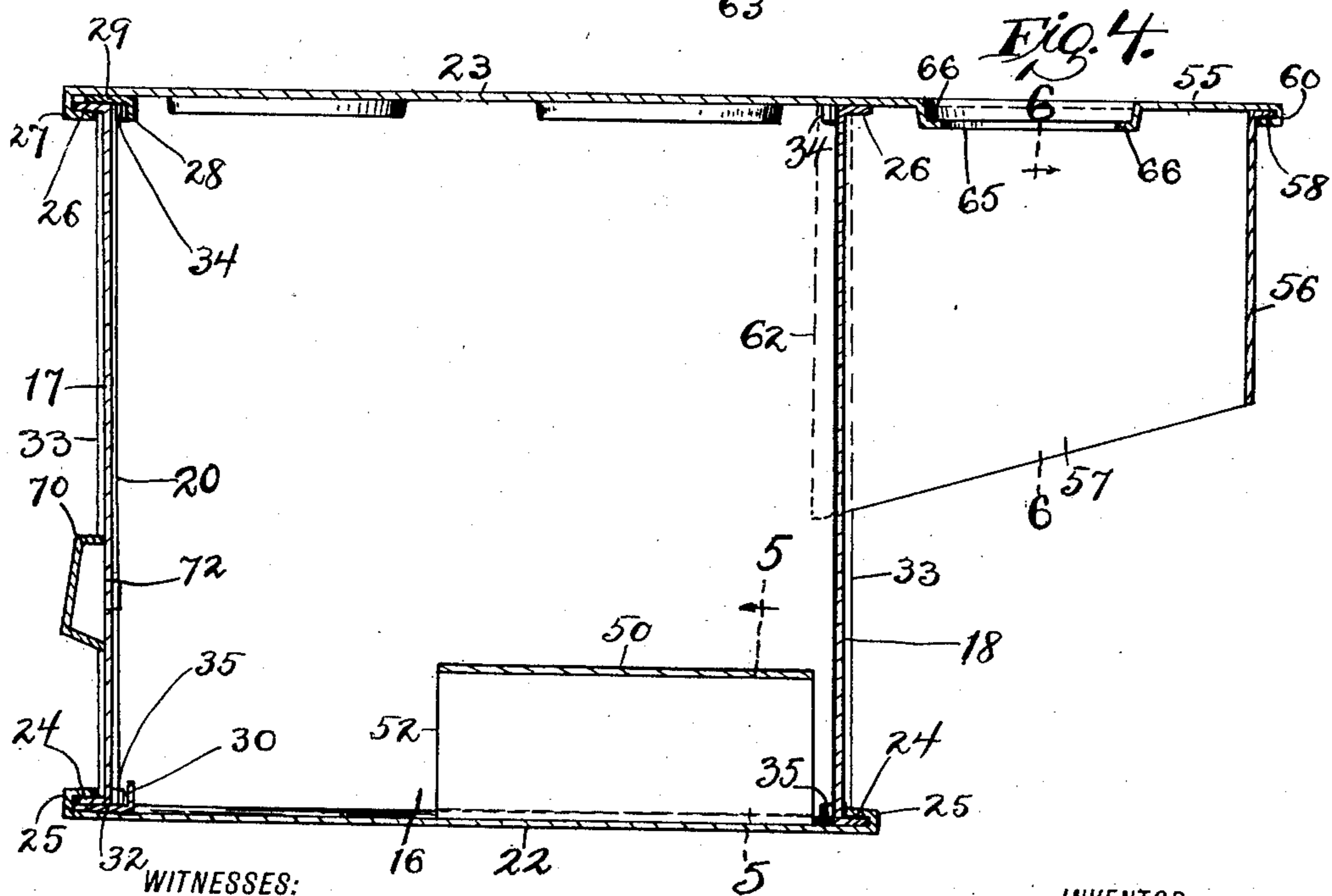
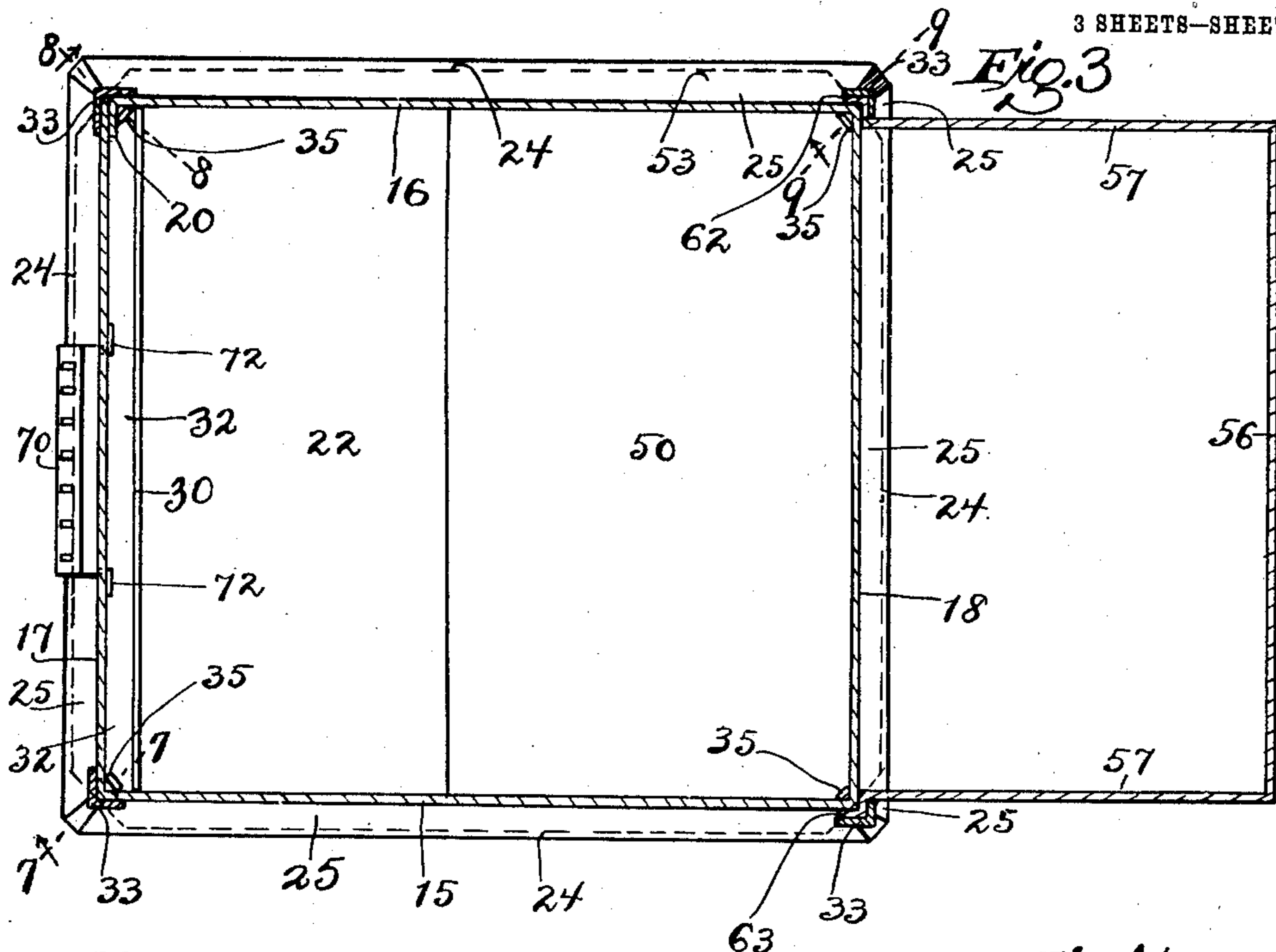
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3 SHEETS—SHEET 2.



WITNESSES:
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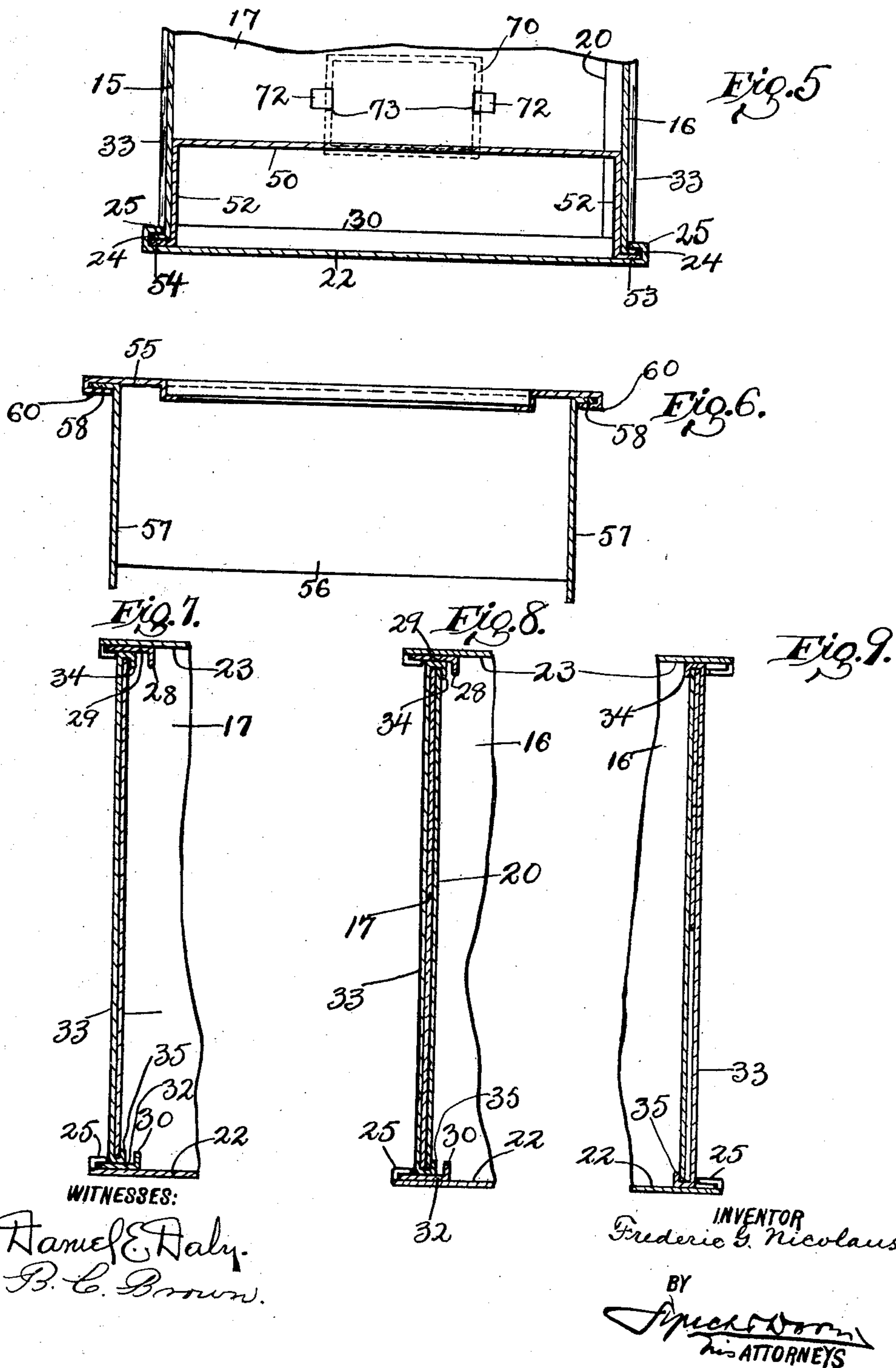
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3 SHEETS—SHEET 3.



UNITED STATES PATENT OFFICE.

FREDERIC G. NICOLAUS, OF CLEVELAND, OHIO.

TOY COOKING-RANGE.

No. 826,598.

Specification of Letters Patent.

Patented July 24, 1906.

Application filed July 28, 1904. Serial No. 218,523.

To all whom it may concern:

Be it known that I, FREDERIC G. NICOLAUS, a citizen of the United States of America, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Toy Cooking-Ranges; and I hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

This invention relates to improvements in toy cooking-ranges.

The object of this invention is to construct a steel toy cooking-range which is simple and durable in construction and whose component parts are readily assembled.

With this object in view and to the end of realizing other advantages hereinafter appearing this invention consists in certain features of construction and combinations of parts hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a front side elevation of the body portion of a cooking-range embodying my invention. Fig. 2 is a top plan. Fig. 3 is a top plan in section on line 3 3, Fig. 1. Fig. 4 is a vertical section on line 4 4, Fig. 2, looking in the direction indicated by the arrow. Fig. 5 is a vertical section on line 5 5, Fig. 4, looking in the direction indicated by the arrow. Fig. 6 is a vertical section on line 6 6, Fig. 4, looking outwardly. Fig. 7 is a vertical section on line 7 7, Fig. 3, looking in the direction indicated by the arrow. Fig. 8 is a vertical section on line 8 8, Fig. 3, looking in the direction indicated by the arrow. Fig. 9 is a vertical section on line 9 9, Fig. 3, looking in the direction indicated by the arrow.

Referring to the drawings, 15 indicates the front or forward wall of the casing, which forms the body portion of the range; 16, the back or rear wall, and 17 and 18 the left-hand side wall and right-hand side wall, respectively, of the said casing. The front 15, back 16, and side walls 17 and 18 are composed, preferably, of a single piece of sheet-steel bent into a quadrangular shape. The back or rear wall 16 terminates adjacent the left-hand side wall 17 (see Fig. 3) in a forwardly-projecting flange 20, which extends up and down the casing and is overlapped at its outer side by the said wall 17.

22 indicates the bottom of the casing form-

ing the body portion of the range, and 23 the top of the said casing or body portion.

The front 15, back 16, and side walls 17 and 18 (see Figs. 3, 4, and 5) constitute the four upright walls of the quadrangular chamber of the body-portion-forming casing and are each provided at the lower end with a laterally and outwardly projecting flange 24, and the bottom 22 is composed, preferably, of a piece of sheet-steel and extends in under and is flanged or bent, as at 25, over the longitudinal edges and upper sides of the flanges 24. (See Figs. 1, 3, 4, and 5.) The upright walls of the chamber of the aforesaid casing—that is, the front 15, back 16, and side walls 17 and 18 (see Figs. 1, 2, and 4)—are each flanged at the upper end laterally and outwardly, as at 26, and the top 23 is composed of a piece of sheet-steel and extends over and is flanged or bent, as at 27, over the longitudinal edges and under sides of the flanges 26 of the wall 17 back and front. It will be observed, therefore, that each upright wall of the chamber of the casing forming the body portion of the range is provided with two laterally and outwardly projecting flanges 24 and 26, arranged at the lower end and upper end, respectively, of the said wall; that the bottom 22 extends in under the lower flanges 24 of the said walls and is flanged or bent over onto the upper sides of the said flanges; that the top 23 extends over the upper flanges 26 of the said walls and is bent over and against the under sides of the said upper flanges except at the right-hand side of the aforesaid casing; that the ends of the piece forming the said walls and provided with the upright edges of the said piece overlap each other and are shown formed by the left-hand end of the rear wall 16 and the rear end of the left-hand side wall 17, and that one of the said ends—viz., the left-hand end of the rear wall 16—terminates in the flange 20.

The back or rear wall 16 and the front or forward wall 15 are braced apart, so as to prevent inward displacement of the said rear wall at its left-hand end (see Figs. 3, 4, 7, and 8) by two brace-forming bars 28 and 30, arranged between and abutting endwise against the said walls in proximity to the left-hand side wall 17 and in proximity to the top 23 and bottom 22, respectively. The upper bar 28 is provided with a laterally and outwardly projecting flange 29, interposed between the upper flange 26 of the side wall 17 and the

top 23. The lower bar 30 is provided with a laterally and outwardly projecting flange 32, arranged between the lower flange 24 of the said wall 17 and the bottom 22.

5 The casing forming the body portion of the range is reinforced at each corner and externally by an angle-bar 33, overlapping the outer sides of the upright walls forming the said corner, which bar is provided at its upper end with an inwardly-projecting arm or flange 34, extending into the chamber of the said casing between the upper ends of the said walls and the under side of the top 23 and bent downwardly within the said chamber. The said bar 33 is provided at its lower end with an inwardly-projecting arm or flange 35, extending into the said chamber between the lower ends of the said walls and the upper side of the bottom 22 and bent upwardly within the said chamber. The arms or flanges 34 and 35 of each corner-piece 33 project, therefore, into the chamber of the body-portion-forming casing and toward each other within the said chamber and closely overlap the said casing interiorly, as shown in Figs. 3, 4, 7, 8, and 9. It will be observed that the angle-bar or corner-piece 33 at the rear left-hand corner of the said casing has its flanges or members 34 and 35 overlapping the inner side of the flange 20 of the rear wall or back 16 and instrumental, therefore, in fastening together the contiguous ends of the said wall and the left-hand side wall 17.

The forward wall or front 15 of the casing forming the body portion of the range is provided (see Fig. 1) with three doorways 36, two of which preferably correspond in dimensions and are formed in the said front between the central portion and the left-hand end of the front and arranged a suitable distance apart vertically. The remaining doorway is larger in dimensions and is formed in the said front between the central portion and the right-hand end of the front and centrally between the bottom 22 and the top 23. The doorways 36 are adapted to be closed by suitably-applied doors. (Not shown.)

The chamber formed by and within the body-portion-forming casing of the range is provided at the bottom of the larger doorway 36 with a horizontally-arranged shelf 50, which (see Figs. 3, 4, and 5) extends forwardly and rearwardly between the back 16 and front 15 of the said casing and braces apart the said front and back. The shelf 50 is provided with two legs 52, arranged at the rear end and forward end, respectively, of the shelf and abutting against the inner side of the back 16 and front 15, respectively. The two legs 52 rest upon the bottom 22. The rear leg 52 is provided at its lower end with a rearwardly-projecting flange 53, which extends in under the lower flange 24 of the back 16. The forward leg 52 is provided with a forwardly-projecting flange 54, which

extends in under the lower flange 24 of the front 15. It will be observed, therefore, that the shelf 50 is prevented from upward displacement within the range without necessitating riveting, soldering, or other expensive and inconvenient means.

The top 23 is extended laterally, as at 55, beyond the outer side of the right-hand side wall 18, and a bracket instrumental in supporting the said top extension is arranged at the outer side of the said wall and is composed, preferably, of a single piece of sheet-steel, which bracket-forming piece is bent into a U shape and arranged with its central member 56 next below and extending forwardly and rearwardly of the outer end of the top extension 55 and with opposite end members 57 of the bracket arranged next below the forward end and rear end, respectively, of the said top extension. The central member 56 and the end members 57 of the said bracket are flanged at their upper ends, as at 58, laterally and outwardly, as shown in Figs. 6 and 7, and the top extension 55 is flanged or bent, as at 60, over the longitudinal edges and under sides of the flanges 58. The rear end members 57 of the said bracket (see Figs. 3 and 4) extend to the right-hand rear corner of the body-portion-forming casing of the range and are there provided with an angular flange 62, which extends up and down the said casing and abuts against the outer side of the right-hand side wall 18 and against the outer side of the back 16 of the said casing and is snugly interposed between the said casing and the adjacent angle-bar or corner-piece 33, which is instrumental in holding the said flange against the said casing. The forward end member 57 of the said bracket (see Figs. 1 and 3) extends to the right-hand forward corner of the said casing and is there provided with an angular flange 63, which extends up and down the said casing and abuts against the outer side of the right-hand side wall 18 and against the outer side of the front 15 of the said casing and is snugly arranged between the said casing and the adjacent angle-bar or corner-piece 33, which is instrumental in holding the said flange against the said casing.

The top extension 55 is provided, as shown in Figs. 2, 6, and 7, with an oblong hole 65, which is rounded at the ends and extends forwardly and rearwardly of the range, and the said top extension is depressed around the said hole to form a suitable seat 66 for a diminutive wash-boiler. (Not shown.)

The top 23 is provided between its left-hand end and the top extension 55 (see Figs. 1, 2, 4, and 5) with any suitable number of circular holes 67. The top 23 is depressed around the holes 67 to form seats 68 for utensils (not shown) which are furnished with the range.

The left-hand side wall 17 of the body-portion-

tion-forming casing is provided at its outer side with a ventilator 70, formed by a piece of sheet-steel, which piece (see Figs. 3 and 5) is provided with two inwardly-projecting suitably-spaced lugs or members 72, which extend through slots 73, formed in the said wall. The lugs or members 72 are clenched at the inner side of the said wall.

What I claim is—

10 1. In a toy cooking-range, the combination, with a sheet-metal casing forming the body portion of the range and comprising a sheet-metal bottom and a sheet-metal top arranged a suitable distance apart vertically, and another sheet-metal piece bent into a quadrangular shape and arranged between and fastened to the top and bottom and forming the upright walls of the chamber of the said casing, of angle-bars extending up and down the outer corners of the said casing and respectively overlapping the outer sides of two adjacent upright walls, which angle-bars are each provided with two inwardly-projecting arms or flanges arranged at the upper end and lower end respectively of the bar and extending in under the top and over the bottom respectively into the aforesaid chamber and bent toward each other within the said chamber.

30 2. In a toy cooking-range, a sheet-metal casing forming the body portion of the range and comprising a sheet-metal bottom and a sheet-metal top arranged a suitable distance apart vertically, and another sheet-metal piece bent into a quadrangular shape and arranged between and fastened to the top and bottom and forming the upright walls of the chamber of the said casing, with the ends of the last-mentioned sheet-metal piece overlapping each other at the junction of two of the said walls, and one of the said adjoining walls being provided, at the said junction, with an inwardly-projecting flange extending from the upper end to the lower end of the wall, and a bar arranged at and extending up and down the outer corner formed by the said adjoining walls and provided with two arms or flanges arranged at the upper end and lower end respectively of the said bar and projecting inwardly into the aforesaid chamber and overlapping the inner side of the aforesaid flange.

55 3. In a toy cooking-range, a sheet-metal casing forming the body portion of the range and comprising a sheet-metal bottom and a sheet-metal top arranged a suitable distance apart vertically, and another sheet-metal piece bent into a quadrangular shape and arranged between and fastened to the top and bottom to form the upright walls of the chamber of the casing, with the ends of the last-mentioned sheet-metal piece overlapping each other at the junction of two of the said walls and relatively arranged to prevent inward displacement of one of the said adjoining

ing walls, and a brace extending between the inner side of the other of the said adjoining walls and the opposite wall, substantially as and for the purpose set forth.

4. In a toy cooking-range, the combination, with a sheet-metal casing forming the body portion of the range and comprising a sheet-metal bottom and a sheet-metal top arranged a suitable distance apart vertically, and another sheet-metal piece bent into a quadrangular shape and arranged to form the upright walls of the chamber of the said casing, with the ends of the last-mentioned sheet-metal piece overlapping each other at the junction of two of the said walls and relatively arranged to prevent inward displacement of one of the said adjoining walls, of two brace-forming bars arranged a suitable distance apart vertically and extending between the inner side of the other of the said adjoining walls and the inner side of the opposite wall.

5. In a toy cooking-range, the combination, with a sheet-metal bottom; a sheet-metal top, and an intermediate sheet-metal piece bent into a quadrangular shape and arranged between the top and bottom forming the front wall, back or rear wall and side walls of the casing comprising the top and bottom, with the ends of the said intermediate piece overlapping each other and forming the left-hand end and rear end respectively of the back and the left-hand side wall respectively of the casing, with each upright wall of the casing provided with two laterally and outwardly projecting flanges arranged at the upper end and lower end respectively of the wall, with the bottom extending in under the lower flange and flanged or bent over the upper side of the said flange, and with the top extending over the upper flange and bent to overlap the under side of the said upper flange, of a bar extending and forming a brace between the back and front of the casing and provided with a flange interposed between the bottom and the lower flange of the left-hand side wall of the casing, and another bar extending and forming a brace between the back and the front of the casing and provided with a flange arranged between the upper flange of the said side wall and the top.

6. In a toy cooking-range, the combination, with a sheet-metal bottom, and a sheet-metal piece bent into a quadrangular shape and arranged on the bottom to form the upright walls of the casing comprising the bottom, with the ends of the second-mentioned sheet-metal piece overlapping each other at the junction of two of the said walls and relatively arranged to prevent inward displacement of one of the said adjoining walls, of a bar arranged within and at the bottom of the aforesaid chamber and provided with a laterally-projecting flange extending in under the wall thus prevented from inward displacement.

placement, which bar extends and forms a brace between the other of the said adjoining walls and the opposite wall of the casing, and the aforesaid upright walls being provided, at their lower ends, with laterally and outwardly projecting flanges whose longitudinal edges and upper sides are overlapped by flanges or bends with which the bottom is provided.

7. In a toy cooking-range, the combination, with a sheet-metal top, and a sheet-metal piece bent into a quadrangular shape and arranged in under the top to form the upright walls of the chamber of the casing comprising the top, with the ends of the second-mentioned sheet-metal piece overlapping each other at the junction of two of the upright walls of the casing and relatively arranged to prevent inward displacement of one of the said adjoining walls, of a brace-forming bar extending and forming a brace between the other of the said adjoining walls and the opposite wall and provided with a flange overlapping the upper edge of one of the aforesaid walls.

8. In a toy cooking-range, a sheet-metal casing forming the body portion of the range and comprising a sheet-metal top and a sheet-metal piece bent into a quadrangular shape and arranged in under and fastened to the top and forming the upright walls of the chamber of the casing, and a bracket arranged at one side of the range and consisting of a single sheet-metal piece bent into a U shape and arranged with its end members adjacent the rear and front of the casing and with its central member a suitable distance from the casing, said bracket members being provided, at their upper ends, with outwardly-projecting flanges, and the top having an extension resting upon the bracket and flanged or bent to overlap the under sides of the aforesaid flanges.

9. In a toy cooking-range, a sheet-metal casing forming the body portion of the range and comprising a sheet-metal top and a sheet-metal piece bent into a quadrangular shape and arranged in under and fastened to the top and forming the upright walls of the chamber of the casing, angle-bars arranged at the corners and externally of and extending up and down and attached to the said casing, and a bracket arranged at one side of the range and consisting of a single sheet-metal piece bent into a U shape and arranged with its end members adjacent the rear and front of the casing and with its central member a suitable distance from the casing, and the top having an extension resting upon and fastened to the bracket, and the end members of the bracket terminating in angular flanges conforming to the aforesaid angle-bars and interposed between the said angle-bars and the casing.

10. In a toy cooking-range, a sheet-metal

casing forming the body portion of the range and comprising a sheet-metal top and a sheet-metal piece bent into a quadrangular shape and arranged in under and fastened to the top and forming the upright walls of the chamber of the casing, and a bracket arranged at one side of the range and consisting of a single sheet-metal piece bent into a U shape and arranged with its end members adjacent the rear and front of the casing and with its central member a suitable distance from the casing, said central member and end members of the bracket being provided, at their upper ends, with outwardly-projecting flanges, and the top having an extension resting upon the bracket and flanged or bent to overlap the under sides of the aforesaid flanges, and the end members of the bracket being fastened also to the casing at the adjacent corners of the casing.

11. In a toy cooking-range, a sheet-metal casing forming the body portion of the range and comprising a sheet-metal top and a sheet-metal piece bent into a quadrangular shape and arranged in under and fastened to the top and forming the upright walls of the chamber of the casing, angle-bars arranged at the corners externally of and extending up and down and attached to the said casing, and a bracket arranged at one side of the range and consisting of a single sheet-metal piece bent into a U shape and arranged with its central member a suitable distance from the casing and with its end members arranged adjacent the rear and front of the casing and provided, at their upper ends, with outwardly-projecting flanges, and the top having an extension resting upon the bracket and flanged or bent to overlap the under sides of the aforesaid flanges, and the end members of the bracket terminating in angular flanges conforming to the aforesaid angle-bars and interposed between the said angle-bars and the casing.

12. In a toy cooking-range, the combination, with a sheet-metal casing forming the body portion of the range and comprising a sheet-metal piece bent into a quadrangular shape and forming the upright walls of the chamber of the said casing, with the back-forming and front-forming walls of the said chamber provided, at their lower ends and externally, with outwardly-projecting flanges, and the bottom being flanged or bent over the longitudinal edges and upper sides of the said flanges, of a shelf arranged within the said chamber between and bracing apart the last-mentioned walls, which shelf consists of a sheet-metal piece and is provided with two depending legs arranged at the rear end and forward end respectively of the shelf, which legs are provided, at the lower ends, with flanges interposed between the lower ends of the last-mentioned walls and the bottom.

13. In a toy cooking-range, the combina-

tion, with a sheet-metal casing forming the body portion of the range and comprising a sheet-metal piece bent into a quadrangular shape and forming the upright walls of the chamber of the said casing, with the front of the said casing provided with a doorway, of a shelf arranged at the bottom of the aforesaid doorway within the said chamber between and bracing apart the back-forming and front-forming walls of the aforesaid chamber, which shelf consists of a sheet-metal piece and is provided with two depending legs arranged at the rear end and forward end respectively of the shelf, which legs are attached to the aforesaid casing at the bottom.

14. In a toy cooking-range, the combination, with a sheet-metal casing forming the body portion of the range and comprising a sheet-metal piece bent into a quadrangular shape and forming the upright walls of the chamber of the said casing and attached to the bottom, of a sheet-metal shelf arranged within the aforesaid chamber between and bracing apart the back-forming and front-forming walls of the chamber, which shelf is provided with two depending legs arranged at the rear end and forward end respectively

of the shelf, which legs are provided, at the lower ends, with flanges interposed between the lower ends of the last-mentioned walls and the bottom.

15. A toy cooking-range comprising a body-portion-forming casing provided at the outer side of one of its upright walls with a ventilator 70 formed by a piece of sheet metal, which piece is provided with two suitably-spaced inwardly-projecting lugs or members 72 which extend through slots 73 formed in the said wall, said lugs or members being clenched at the inner side of the said wall.

16. A toy cooking-range comprising a body-portion-forming casing provided at its outer side with a ventilator provided with two suitably-spaced inwardly-projecting lugs or members which extend into the chamber formed by the casing through slots formed in the casing, said lugs or members being clenched against the adjacent wall of the said chamber.

In testimony whereof I sign the foregoing specification, in the presence of two witnesses, this 25th day of July, 1904, at Cleveland, Ohio.

FREDERIC G. NICOLAUS.

Witnesses:

C. H. DORER,
B. C. BROWN.