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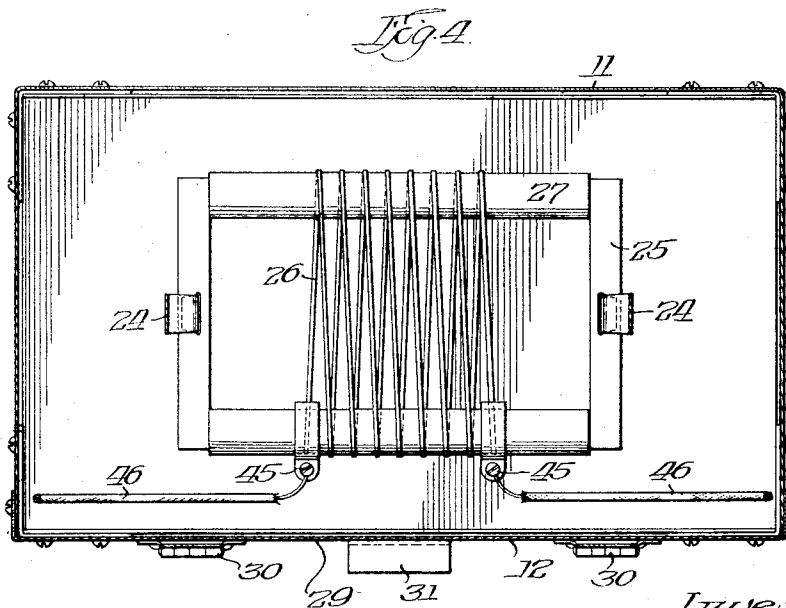
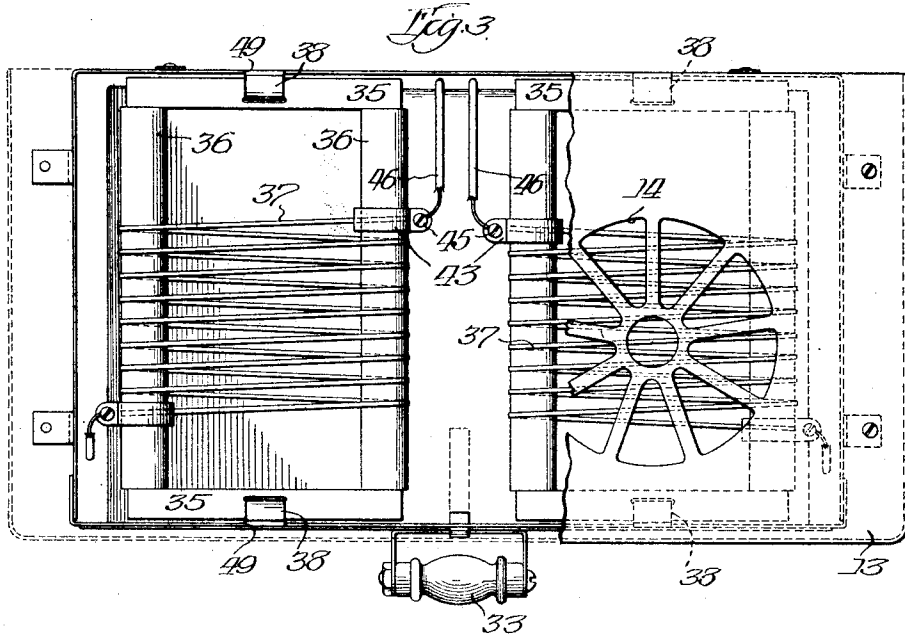
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TOY RANGE

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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

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TOY RANGE.

Application filed September 28, 1922. Serial No. 591,035.

The present invention relates to toy ranges.

An object of the present invention is to provide a toy range which may be cheaply constructed, which will simulate a full sized range in a manner to appeal to the fancy of children, and which may be actually used for cooking purposes.

A further object is to provide an electric range which is sturdily constructed of a minimum of parts.

A further object is to provide a toy electric range which may be cheaply constructed, is presentable in appearance and has effective cooking possibilities.

Further objects will appear as the description proceeds.

Referring to the drawings—

Figure 1 is a view in front elevation of a toy range according to the present invention;

Figure 2 is a sectional view taken along the line 2—2 of Figure 1;

Figure 3 is a top plan view of the structure illustrated in Figures 1 and 2, parts being broken away to better show the structure;

Figure 4 is a sectional view taken along the line 4—4 of Figure 2.

The range comprises a casing 10 which may be made up of the U-shaped member 11 (Figure 4), the front being closed by the member 12 which has overlapped flanges embracing the sides of the range and suitably secured thereto, as for instance by bolts and nuts. The top of the casing 10 may be provided with the top 13, which may be cut out as shown in Figure 3 to provide grates 14—14, of which only one is illustrated. The casing 10 is supported by the four legs 15—15, which may be mounted at the corners of the range. Said legs 15 may be angular in cross section, mounted within the walls of the casing 10 and may embrace the pan 16, which pan has the upturned walls 17. The legs 15 are mounted between the walls 17 of the pan 16 and the casing 10. Inasmuch as said legs are mounted only at the corners of the range, said legs provide spacing means between the pan 16 and the casing 10 for the admission of air at the bottom of said range.

The front wall of the range is cut away to provide an opening for an oven, which will be referred to hereinafter, the edges of said cut away portion being bent over, as indicat-

ed by the numerals 18—18, to provide oven supporting members.

The oven, which is indicated by the numeral 19, has the side walls 20, the rear wall 21, the top wall 22 and the bottom wall 23. The walls of the oven 19 may be united to the flanges 18—18 by swedging operations or in any other preferred manner, whereby said oven will be held securely in place. The bottom wall 23 of the oven 19 has holes 23', provided therein, certain parts of the material of said bottom wall 23 being used to provide downwardly extending lugs 24 adapted to hold the frame 25 which carries the heating element 26. The frame 25 may be a frame having two parallel sides, which may be wrapped with asbestos or other insulating material, indicated by the numeral 27. The frame 25 with its heating element 26 is located below the bottom of the oven and above the pan 16. The pan 16 is provided with a layer of asbestos 28 which acts as a protective means for the article upon which the range is placed as well as reducing the waste of heat.

The front side of the oven 19 is provided with a swinging door 29 which may be mounted upon the hinges 30—30. The front 12 of the range may be provided with an L-shaped supporting member 31 adapted to hold the door 29 in a horizontal position when said door is open. A resilient catch member may be attached to the upper wall 22 of the oven 19, which catch member is indicated by the numeral 32, which catch member cooperates with the top portion of the oven door 29 to hold same in closed position. A handle 33 may be provided on the oven door 29 for convenience in operating said door. The door 29 may be provided with two spaced walls 34 and 35, which walls are shaped to contact near the outer edges of the door. This construction provides an ornamental appearance as well as providing space for insulating means 36' to aid in confining the heat within the oven 19.

Mounted in the space between the oven 19 and the top 13 of the range are the frames 35—35, which frames are closed structures similar to the frame 25 referred to above, the parallel sides of said frames being wrapped with layers 36—36 of asbestos or other heat and electric insulating material. Said frames 35—35 carry the heating ele-

ments 37—37, which elements are located immediately below the grates 14—14 in the top 13 of the range. The frames 35—35 are supported on tongues 38—38, which are struck out from the material of the front and back sides of the casing 10. Said tongues 38—38 are bent inwardly and pass through openings in the frames 35—35, being then reversely bent to clinch said tongues 38—38 in position.

Mounted upon the upper side of the oven 19 is the sheet 39 of asbestos or other heat insulating material to protect the upper wall 22 of the oven 19 against the heat from the heating elements 37—37.

Attached to the rear wall of the casing 10 is the upright sheet metal member 40, which is braced by the side members 41—41 which are attached at their lower portions to the top 13 of the range. Said side members 41 and member 40 carry the shelf 42, which may carry dishes to be kept warm, simulating the functions of similar parts in large ranges.

The electrical connections are made through clips 43—43 which comprise resilient members bent to form legs 44—44, as shown in Figure 2. Said legs are held together by means of the bolts or screws 45, which bolts or screws also provide binding posts for electric wires 46. Said legs 44 firmly grip the heating element 26 whereby a good electrical connection is readily made. A preferred construction of clip has a screw-threaded aperture in one leg thereof for engagement with a screw 45. The electrical elements 26 and 37 may be connected in series or parallel, as desired, and the electrical connections may be controlled in any preferred way, connection being made to an outside circuit by way of terminal posts 47—47, which may engage with an electrical socket of ordinary construction.

The construction illustrated and described for forming supporting means for the frames 35—35 has the further function of admitting air to the heating elements 37—37. The tongues 38—38, which are struck out from the rear wall and the front wall of the casing 10, leave openings 49—49 which are located below the top 13 of the range, whereby air is admitted at these points providing for a circulation of air through the grates 14—14. As indicated above, air may also enter the lower part of the range by reason of the space provided by the legs 15—15, which air may pass around the walls of the oven 19 and pass out through the grates 14—14. The construction provides for ample circulation of air about the oven 19 and through the grates 14—14, whereby efficient heating may be had in the toy range.

The described embodiment has been

chosen merely for the purpose of illustration and should not be considered in a limiting sense. Many modifications will occur to those skilled in the art. It is intended in this patent to cover all such modifications that fall within the scope of the invention as defined by the appended claims.

I claim:

1. A toy range comprising a casing having a front opening, an oven mounted within said casing and communicating with said front opening, said oven being spaced from the walls of said casing, a bottom pan, legs for said range providing spacing means between said bottom pan and said casing whereby to admit air to the exterior of said oven, and a heating element mounted between the bottom of said oven and said pan.

2. A toy range comprising a casing having a front opening, an oven mounted within said casing and communicating with said front opening, said oven being spaced from the walls of said casing, a bottom pan, legs for said range providing spacing means between said bottom pan and said casing for the admission of air, and a heating element mounted between the bottom of said oven and said pan, said oven having members struck from the bottom thereof providing holding means for said heating element.

3. A toy range comprising a casing having a front opening, an oven mounted within said casing and communicating with said opening, said oven being spaced from the walls of said casing, a top for said range spaced above said oven and a bottom pan for said range spaced below said oven, heating elements mounted in the spaces above and below said oven, said oven having members struck from the bottom thereof for holding one of said heating elements and for providing an aperture in the bottom of said oven, said casing having members struck from the front and rear sides thereof for providing holding means for heating elements above said oven and for providing apertures for access of air to said last mentioned heating elements.

4. A toy range comprising a casing having an oven, heating elements arranged above and below said oven, said heating elements comprising frames having heating wires mounted thereon and clips for engaging the terminals of said heating wires, said clips comprising unitary members having two arms bent upon themselves and a screw-threaded binding post mounted near the bend thereof for holding said clips in position and holding a connecting wire thereto.

5. A toy range comprising a casing having an oven, a heating element arranged below said oven, legs mounted within said casing and a holder mounted within said legs, said holder being adapted to support a heat insulator to insulate said heating element from

a member upon which said range is mounted.

6. A toy range comprising a casing having an oven, heating elements placed above and below said oven, a range top having a grate mounted above the uppermost of said heating elements and a heat insulator mounted below the lowermost of said heating elements, means for holding said heat insulator, and legs mounted between said casing and said holder for providing space for access of air around said oven.

7. A toy range comprising a casing having a front opening, an oven mounted within said casing and communicating with said opening, said oven being spaced from the walls of said casing, a top for said range spaced above said oven and a bottom pan for said range spaced below said oven, heating elements mounted in the spaces above and below said oven, said oven having members struck from the bottom thereof for holding one of said heating elements and for providing an aperture in the bottom of said oven.

8. A toy range comprising a casing having a front opening, an oven mounted within said casing and communicating with said opening, said oven being spaced from the walls of said casing, a top for said range spaced above said oven and a bottom pan for said range spaced below said oven, heating elements mounted in the spaces above and below said oven, said oven having members struck from the bottom thereof for holding one of said heating elements and for providing an aperture in the bottom of said oven, said casing having members struck therefrom adjacent to the heating elements in the space above said oven, said last mentioned members being formed to hold said heating elements in the space above said oven and providing apertures for the admittance of air to said last mentioned heating elements.

Signed at Chicago, Illinois, this 22nd day of September, 1922.

DAVYDD C. HUGHES.