GUARD FOR A DOMESTIC RANGE

Filed April 24, 1952

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

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This invention relates to a device or guard for the protection of children from accidental burns arising from contact with the horizontal heating surface of a domestic range or from the overturning of pots and pans on the heating surface. It is an object of the instant invention to provide a guard which will decrease the hazards to which children are frequently exposed in the home.

Other objects of the instant invention will become apparent in the course of the following specification.

In the attainment of the aforesaid objectives, the guard is slidably inserted under the heating surface when not in use and is drawn out therefrom and pivoted at 90° to the plane of the heating surface with one edge thereof before when in the protective position.

The invention will appear more clearly from the following detailed description when taken in conjunction with the accompanying drawings showing by way of example a preferred embodiment of the inventive concept.

In the drawings:

Figure 1 is a top view of the slideable guard attached to a range;

Figure 2 is a front view of the slideable guard and range shown in Figure 1;

Figure 3 is a sectional view along III—III of Figure 2 but on an enlarged scale;

Figure 4 is a sectional view along IV—IV of Figure 2; and

Figure 5 is a view similar to Figure 4 but with the guard moved to the protective position.

In the slideable guard shown in Figures 1–5, reference numeral 50 indicates the range, and 51 the slideable guard.

The range 50 is of the gas burner type equipped with the four burners 51a, 52, 53 and 54. The burner 51a, for example, may be controlled by the cock 55 (Fig. 2), the burner 52 by the cock 56, the burner 53 by the cock 57, and the burner 54 by the cock 58. The heating surface 12 above the gas burners may be supported in a horizontal plane by the spaced parallel vertical end members 65 and 66 and a front member 72 and a back member.

The slideable guard 51 is constituted of the guide 60 and the guard 59.

The guide 60 may be substantially in the form shown in Figure 3 where the outwardly directed ends 61 and 62 are slidably inserted in the horizontal slideways 63 and 64, respectively, the slideway 63 being formed in the vertical end member 65 (Fig. 1) and the slideway 64 in the vertical end member 66. In the plane of the slideways but in the front member 72 is a horizontal slot 71 (Figs. 4 and 5).

The guard 59 is constituted of a substantially flat sur-

face portion having a length less than the width of the heating surface and slidably inserted through the horizontal slot 71. Along the inner edge and at each side of the guard is the closed loop 67 which is secured around the guide 60 as most clearly shown in Figure 5. Thus, the guide 60 is longitudinally adjustable in the slideways 63 and 64 and the guard 59 both rotatably and longitudinally adjustable on the guide and slideable through the slot 71. In the guard is a longitudinal slot 68 so positioned that when the guard is erected in the protective position (Fig. 5), the cocks 55–58 controlling the gas burners will be exposed.

In operation, the guard 59 may, when not in use, be substantially concealed in the range. When in use, the guard together with a portion of the guide 60 is pulled out of the range to substantially the position shown in Figure 5. When pulled out, the guide drawn by the guard will be at the outer end of the loop 67, that is the reverse of the position shown in Figure 5. However, when withdrawn the guard is free from the slot 71 and can be rotated on the guide until the front edge 69 rests on the buttons 70 and the end of the loop 67, that is the inner edge or back of the guard protrudes above the plane of the heating surface as illustrated.

Obviously, the guard 59 could be made in two hinged portions (not shown) with the back portion remaining under the heating surface and with the front portion when withdrawn rotated at an angle of 90° to the plane of the back portion to protrude above the plane of the heating surface. If the hinged portions are slidably inserted above the cocks no longitudinal slot 68 to expose the cocks will be necessary while if slidably inserted below the cocks such slot will be required.

While there is above disclosed but one form of the guard, it is possible to produce still other forms without departing from the inventive concept herein disclosed, and it is desired therefore that only such limitations be imposed on the appended claim as is stated therein.

What is claimed is:

In a range having a heating surface supported in a horizontal plane by spaced parallel end members and a front member secured along corresponding edges, the end members having aligned horizontal slideways formed therein and the front member having a horizontal slot in the plane of the slideways; the improvements comprising a guide slidably disposed in each slideway, a guard slidably disposed through the horizontal slot in the front member and between the slideways, said guard having a depth less that the depth of the heating surface, hinged means for securing the inner edge of each side of said guard to one guide, and means for releasably maintaining the guard in a plane substantially perpendicular to the plane of the heating surface with one edge protruding thereabove when withdrawn from the slideways.

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