Sept. 28, 1937. V. AIDALA 2,094,441

GAS RANGE PETCOCK SHIELD

Filed April 6, 1937

Fig. 1.

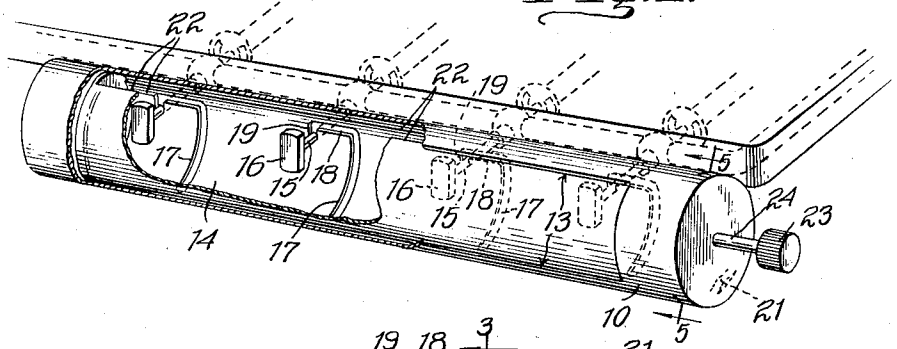


Fig. 2.

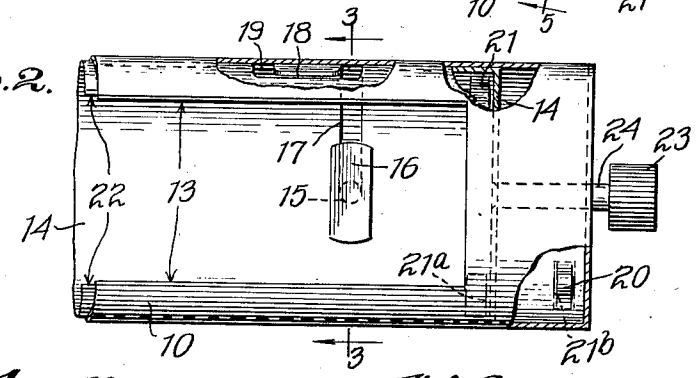


Fig. 4.

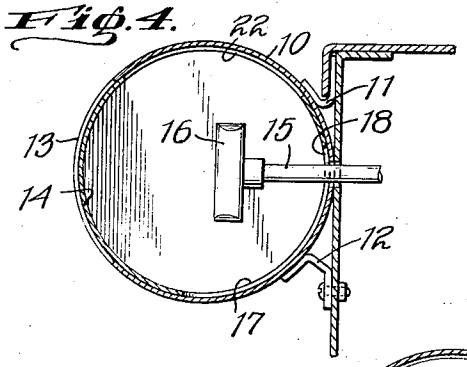


Fig. 3.

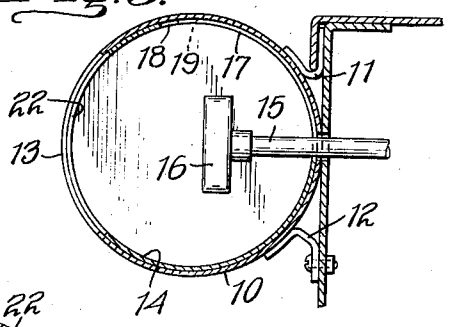
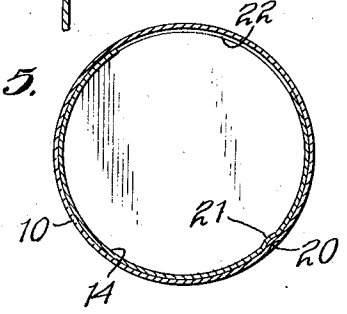


Fig. 5.



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GAS RANGE PETCOCK SHIELD

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3 Claims. (Cl. 126—42)

One object of this invention is the provision of a shield adapted to be mounted on gas ranges, to serve the purpose of enclosing the petcocks when the range is not in use, to prevent inadvertent turning on of the gas by children in the absence of their elders.

The above and other objects will become apparent in the description below, in which characters of reference refer to like-named parts in the accompanying drawing.

Referring briefly to the drawing, Figure 1 is a perspective view, illustrating the application of the device to a gas range and showing the device in closed position.

Figure 2 is a fragmentary front view of the same, partly in section, showing the device in open position.

Figure 3 is a cross-sectional view taken on the line 3—3 of Figure 2.

Figure 4 is a cross-sectional view taken on the same line as Figure 3, but with the device in closed position.

Figure 5 is a cross-sectional view taken on the line 5—5 of Figure 1.

Referring in detail to the drawing, the numeral 10 represents an outer cylindrical housing secured to the front of a gas range by means of suitable spaced-apart brackets 11 and 12 or the like. The housing 10 has a longitudinal cut-out opening or slot 13 extending over the greater portion of the length of the housing. An inner cylinder 14 of an outside diameter equal to the inside diameter of the housing 10, is rotatably mounted within the latter and is also provided with a longitudinal opening or slot 22 of the same dimensions as the opening 13. The length of the cylinder 14 is less than that of the housing 10, so that a space is provided at the right-hand end (Figure 1) of the cylinder 14.

The series of stems 15 of the petcocks 16 project through holes in the housing 10 and through peripheral slots 17 cut through the cylinder 14. The slots 17 have right-angled extensions 18, and at the extremities of the extension slots 18 notches 19 are provided which extend in the same downward direction as the slots 17. Each continuous slot 17—18—19 constitutes a single bayonet slot in the cylinder 14.

In the lower rear quadrant of the housing 10 (Figure 5), a resilient tongue 20, projecting into the housing 10, is formed near the right-hand end (Figure 2) of the housing by cutting out a ribbon-like section from the cylinder 10 and forcing it inward. A similar operation is performed on the cylinder 14 in the upper right-hand quadrant (when the device is open, but in the lower right-hand quadrant, as in Figure 5, when the device is closed) at a point adjacent its right-hand end (Figure 2) to form a depression 21 in the outer surface of the cylinder 14. A knurled knob or handle 23 is provided outside the end of the housing 10, and has a stem 24 passing loosely and axially through the end wall of the housing. The stem 23 is rigid with the end wall of the inner cylinder 14.

The operation of the device is as follows. Assuming that the range is in use so that the petcocks may be turned on and off, the cylinder 14 is in the position shown in Figures 2 and 3, that is, the longitudinal opening 13 of the cylinder 10 is coincident with the similar longitudinal opening 22 of the cylinder 14. Thus, the petcocks 16 are freely accessible through these aligned openings. When it is desired to shield the petcocks to lock the same against tampering by children, the knob is rotated in a counter-clockwise direction (Figures 1 and 3) to rotate the cylinder 14 through an arc equal to the peripheral length of the slot 17. The knob 23 is then pulled outward from the housing 10, thus carrying with it the cylinder 14 and causing the petcock stems 15 to ride through the horizontal slots 18. When the stems 15 are in the extremities of the slots 18, the knob is rotated in a clockwise direction until the stems 15 rest in the notches 19. During the movements just described, the depression 21 in the cylinder 14 has been first moved downward (Figure 2) to the position shown in broken lines at 21*a*. When the cylinder 14 is moved to the right while the stems 15 ride through the slots 18, the depression 21 is moved to the position shown at 21*b* in Figure 2. In the final movement of the cylinder 14 downward so that the stems 15 reach the extremities of the notches 19, the depression 21*b* will ride over the resilient tongue 20 until the tongue will register in the depression and thus releasably lock the cylinders 10 and 14 together, with the wall of the cylinder 14 acting as a shutter to close the opening 13 through the cylinder 10. It will thus be difficult for any child without the exercise of considerable ingenuity and physical effort to restore the device to its open position, and hence the petcocks 16 will be shielded against tampering.

Obviously, modifications in form and structure may be made without departing from the spirit and scope of the invention.

I claim:

1. A device of the class described comprising an outer cylinder secured to a gas range and having

the petcock stems of the range projecting thereinto, said cylinder having a longitudinal opening in its forward wall giving access to the petcocks, an inner cylinder rotatably mounted within and of a shorter length than said outer cylinder, a handle on said inner cylinder projecting through said outer cylinder, said inner cylinder having a plurality of bayonet slots, each of said petcock stems projecting through one of said bayonet slots, said inner cylinder having a longitudinal opening therein, said openings being in alignment and giving access to the petcocks in one position of said inner cylinder, said inner cylinder being rotatable to rotate its said opening out of alignment with the opening in said outer cylinder to close the opening through said outer cylinder.

2. A device of the class described comprising an outer cylinder secured to a gas range and having the petcock stems of the range projecting thereinto, said cylinder having a longitudinal opening in its forward wall giving access to the petcocks, an inner cylinder rotatably mounted within and of a shorter length than said outer cylinder, a handle on said inner cylinder projecting through said outer cylinder, said inner cylinder having a plurality of bayonet slots, each of said petcock stems projecting through one of said bayonet slots, said inner cylinder having a longitudinal opening therein, said openings being in alignment and giving access to the petcocks in one position of said inner cylinder, said inner cylinder being rotatable to rotate its said opening out of alignment with the opening in said outer cylinder to close the opening through said outer cylinder, and resilient means for releasably locking said cylinders together in said latter position.

3. A device of the class described comprising an outer cylinder secured to a gas range and having the petcock stems of the range projecting thereinto, said cylinder having a longitudinal opening in its forward wall giving access to the petcocks, an inner cylinder rotatably mounted within and of a shorter length than said outer cylinder, a handle on said inner cylinder projecting through said outer cylinder, said inner cylinder having a plurality of bayonet slots, each of said petcock stems projecting through one of said bayonet slots, said inner cylinder having a longitudinal opening therein, said openings being in alignment and giving access to the petcocks in one position of said inner cylinder, said inner cylinder being rotatable to rotate its said opening out of alignment with the opening in said outer cylinder to close the opening through said outer cylinder, resilient means for releasably locking said cylinders in said latter position, said means comprising a resilient tongue in said outer cylinder, said inner cylinder having a depression therein, said tongue being adapted to register in said depression.

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