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2,371,727

GAS VALVE CONTROL ATTACHMENT

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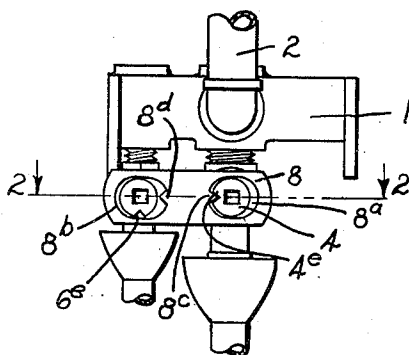


FIG. 1

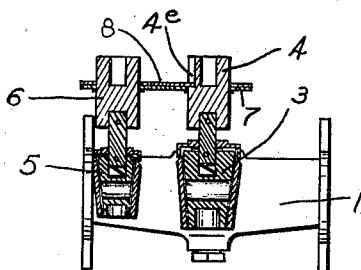


FIG. 2

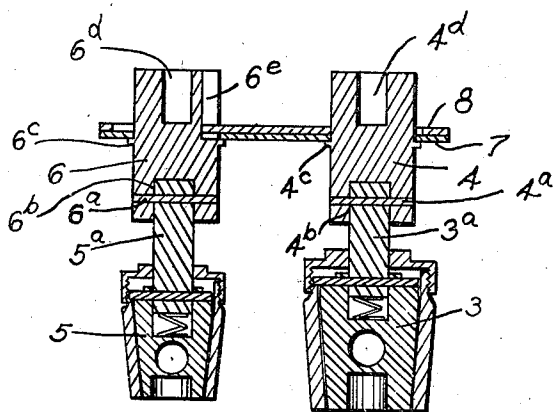


FIG. 3

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GAS VALVE CONTROL ATTACHMENT

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1 Claim. (Cl. 74—483)

My invention relates to an attachment to be used in connection with the pilot and main burner valves for controlling the same and the objects of my invention are:

First, to provide an attachment of this class which prevents the opening of the main valve until after the pilot valve has first been opened;

Second, to provide an attachment of this class which is applicable for use in connection with various types of main and pilot valves now in use;

Third, to provide an attachment of this class which is positive in its action;

Fourth, to provide an attachment of this class which when in certain position the pilot valve cannot be closed while the main valve is open because the main valve must be closed before the pilot valve can be closed;

Fifth, to provide an attachment of this class which is very simple and economical of construction, easy to apply, easy to operate, efficient in its action and which will not readily deteriorate or get out of order.

With these and other objects in view as will appear hereinafter my invention consists of certain novel features of construction, combination and arrangement of parts and portions as will be hereinafter described in detail and particularly set forth in the appended claim, reference being had to the accompanying drawing and to the characters of reference thereon which form a part of this application in which:

Figure 1 is a top or plan view of a main and pilot valve arrangement shown in connection with the burners fragmentarily and showing my attachment positioned thereon with the pilot valve closed and therefore the main valve is locked or latched against movement; Fig. 2 is a sectional view of my attachment shown in connection with the valve taken from the line 2—2 of Fig. 1 and showing portions in elevation to facilitate the illustration and Fig. 3 is an enlarged sectional view showing the valves open.

Similar characters of reference refer to similar parts and portions throughout the several views of the drawing.

The gas distributor brackets 1, gas conductor 2, main burner valve 3, main burner valve stem control member 4, pilot burner valve 5, pilot burner valve stem control member 6 and control plates 7 and 8 constitute the principal parts and portions of my gas valve control attachment.

The gas distributing bracket 1, gas conductor 2, main burner valve 3 and pilot burner valve 5 in their connected relations may be of any con-

ventional type now in use and are no part of my present invention.

The main burner valve 3 and the pilot burner valve 5 are usually placed in certain spaced relation with each other as shown best in Figs. 1 and 3 of the drawing. Secured on the upper end of the stem 3a of the main burner valve 3 is the main burner valve stem control member 4 and is secured thereon by means of a pin 4a, the member 4 being provided with a recess 4b in which the upper end of the valve stem 3a extends. This control member 4 is provided with an outwardly extending flange 4c intermediate its ends and is provided with a square recess 4d centrally in its upper end which serves for receiving a square-ended key for turning this member 4 together with the valve stem 3a and the valve 3. This member 4 is also provided with a V-shaped vertical slot 4e in one side thereof as shown best in Figs. 1 and 2 of the drawing.

Secured on the upper end of the valve stem 5a by means of a pin 6a is the pilot burner valve stem control member 6, said member 6 being provided with a recess 6b in its lower end which is adapted to receive the upper end of the valve stem 5a, as shown best in Fig. 3 of the drawing. This member 6 is also provided with an outwardly extending flange 6c. This member 6 is also provided with a square-shaped recess 6d in its upper end conforming to the recess 4d in the member 4 for receiving the same key as that used in the recess 4d. This member 6 is also provided with a V-shaped vertically positioned recess 6e, it being noted that the slot 6e is stationed one-quarter turn or at right angles to the slot 4e when the valves 3 and 5 are both in closed position, as shown best in Fig. 1 of the drawing.

Positioned over the upper ends of the members 4 and 6 and resting on the flanges 4c and 6c is a strap member 7 which is provided with two circular holes therein spaced the proper distance to hold the members 4 and 6 in certain spaced relation with each other but permit their turning in said strap member 7.

Positioned on top of the member 7 and over the members 4 and 6 is another strap member 8 which is provided with elongated holes 8a and 8b and on the inner side are provided V-shaped lug portions 8c and 8d which are so positioned and spaced from each other than when the lug 8d is on the outside of the circular portion of the member 6, the lug 8c is positioned in the slot 4e so that the valve stem control member 4 cannot be turned with the key. This is when the pilot valve is in closed position. However, if the mem-

ber 6 is turned so that the slot 6e in the member 6 faces toward the control member 4, then the member 8b may enter the slot 6g in which case the member 4 may be turned together with the valve stem 3a and the valve 3 to open position by simply placing the key in the recess 4d and turning the same. The turning of the member 4 will shift the member 8 endwise so that the member 8d enters the slot 6e.

Though I have shown and described a particular construction, combination and arrangement of parts and portions, I do not wish to be limited to this particular construction, combination and arrangement, but desire to include in the scope of my invention the construction, combination and arrangement substantially as set forth in the appended claim.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

In a device of the class described, the com-

5 bination of a pair of vertically disposed revoluble members in spaced relation to each other, control members secured on the upper ends of said revoluble members, each of said control members provided with a V-shaped slot positioned longitudinally of said control members at their upper ends, one being positioned a quarter turn from the other when both revoluble members are in certain relation to each other, and longi-
10 tudinally shiftable means for engagement with one of said V-shaped slots and the outer surface of the other control member in either longitudinally shifted position, said means including a strap provided with openings therein slightly
15 longer than the diameter of said control members and provided with V-shaped lug portions adapted to fit in said V-shaped slots one at a time, said strap automatically shiftable longitudinally with the turning of one of said control members.

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