March 24, 1953 J. W. COLWELL 2,632,623

GAS JET SAFETY LOCK

Filed Feb. 7, 1951

Fig. 1.

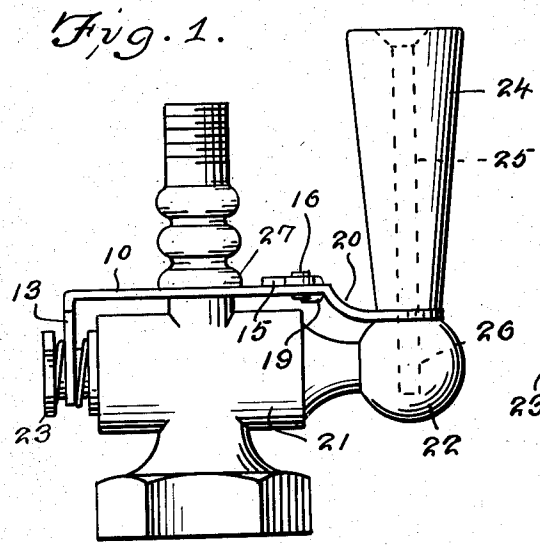


Fig. 2.

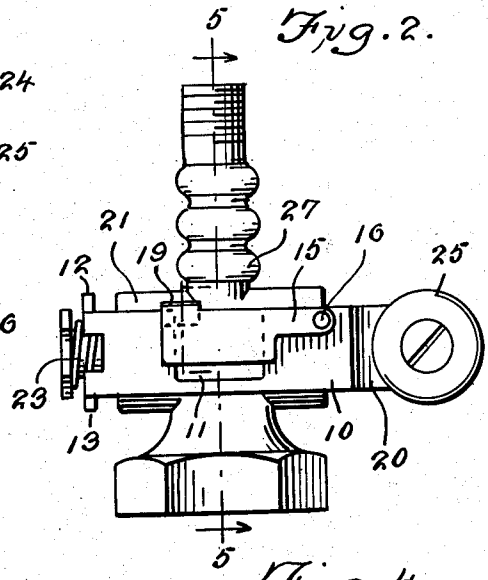


Fig. 3.

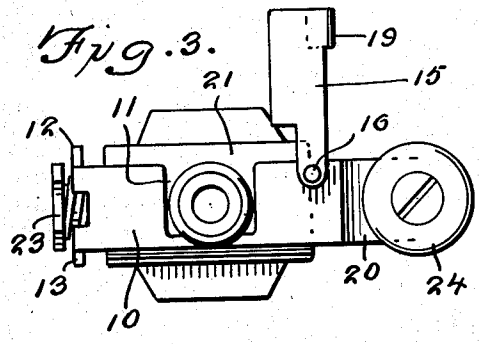


Fig. 4.

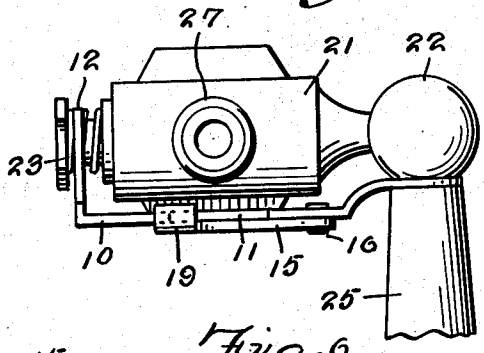


Fig. 5.

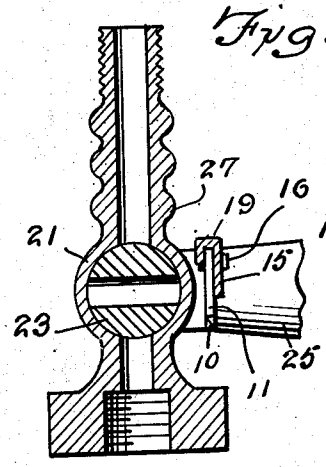
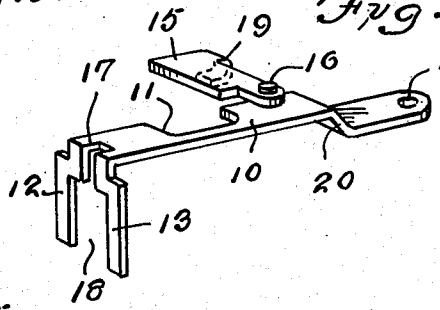


Fig. 6.



INVENTOR.

Jess W. Colwell

BY Victor J. Evans & Co.

ATTORNEYS

Patented Mar. 24, 1953 2,632,623

UNITED STATES PATENT OFFICE

2,632,623

GAS JET SAFETY LOCK

Jess W. Colwell, Texas City, Tex.

Application February 7, 1951, Serial No. 209,846

5 Claims. (Cl. 251—153)

1

This invention relates to devices particularly adapted for gas jets or valves on gas cooking stoves, heaters and other types of burners, and in particular this invention relates to a bar having a recess in one side thereof with a clip pivotally mounted on the bar and adapted to close the recess, and the bar is formed whereby with one end positioned between the handle of the valve and stem and with the other placed over the opposite end of the stem it would be impossible to open the valve with the clip in position on the bar.

The purpose of this invention is to prevent accidental opening of gas valves where gas is discharged into rooms, buildings and the like without being lighted, and also to prevent children opening the valves of gas ranges, heaters and the like.

In the conventional type of valve or cock used on gas ranges, heaters and the like the handles are often accidentally turned by a person passing by the stove or heater and valves of this type are frequently opened by children. The escaping gas resulting from accidentally opening gas valves not only overcomes persons entering the enclosure but causes explosions and the like. With this thought in mind this invention contemplates a latch adapted to be positioned on the valve so that with the latch in the closed position it would be impossible to open the valve.

The object of this invention is, therefore, to provide a safety latch for valves of gas ranges, heaters and the like wherein it is necessary to open a clip by the thumb or forefinger of a hand operating the valve before the valve is opened.

Another object of the invention is to provide a safety clip for the valves of gas ranges, heaters and the like that may readily be installed on valves now in use without changing parts of the valves.

A further object of the invention is to provide a safety latch for preventing accidental opening of gas valves and the like which is of a simple and economical construction.

With these and other objects and advantages in view the invention embodies a gas valve safety latch formed with a bar having a forked end, an opening in one side and an opening in the opposite end, and a cap pivotally mounted on the bar and positioned to close the opening in the side thereof.

Other features and advantages of the invention will appear from the following description taken in connection with the drawing wherein:

Figure 1 is a side elevational view of the gas valve having the safety latch positioned thereon, and with the valve in the open position.

2

Figure 2 is a similar view of the valve with the handle and latch turned to the position in which the valve is closed.

Figure 3 is an end elevational view of the valve shown in Fig. 1 showing the clip of the safety latch in the open position.

Figure 4 is a similar view of the valve shown in Fig. 2 showing the safety clip and handle of the valve with the parts in the closed position.

Figure 5 is a longitudinal section through the valve shown in Fig. 2 being taken on line 5—5 thereof illustrating the position of the clip on the latch bar and showing part of the handle of the valve broken away.

Figure 6 is a detail illustrating the safety device of this invention with the clip in the open position.

Referring now to the drawing wherein like reference characters denote corresponding parts the improved safety latch of this invention includes a bar 10 having a recess 11 in one side, a fork including prongs 12 and 13 on one end and an opening 14 in the opposite end, and a clip 15 pivotally mounted on the bar 10 by a pin 16.

The end of the bar on which the fork is positioned is also provided with a slot 17 which extends downwardly into an opening 18 positioned between the prongs 12 and 13 of the fork and the clip 15 is provided with a U-shaped stop 19, as illustrated in Fig. 5 which extends over the end of the bar 10 when the clip is in the closed position.

The bar 10 is also provided with an offset section 20 whereby with the intermediate part of the bar positioned over a valve body as indicated by the numeral 21, the end of the bar in which the opening 14 is positioned may be located against the knob 22 of the valve stem 23 so that the bar 10 may be held in position by the handle 24 of the valve. The handle 24 is provided with a stem 25 that is threaded into the knob 22, as illustrated in Fig. 1, thereby providing means for mounting the handle on the end of the stem.

In installing the latch the handle 24 is removed, the end of the bar in which the opening 14 is positioned is placed over the threaded opening 26 in the knob 22, and the stem 25 threaded into the opening whereby the bar is clamped between the handle and knob 22.

At the same time the prongs 12 and 13 of the fork at the opposite end of the bar are positioned over the end of the stem 23 projecting

from the opposite end of the valve body 21, as illustrated in Figs. 1 and 2.

With the parts in this position and with the clip 15 closed, as shown in Fig. 2, it will be impossible to turn the handle 24 from the position shown in Fig. 2 to that shown in Fig. 1 in order to open the valve.

When it is desired to open the valve the clip 15 is snapped about the pivot pin 16 from the position shown in Fig. 2 to that shown in Fig. 6 whereby the recess 11 is open and the handle 24 may be turned to permit the shank 27 of the valve to enter the recess 11.

By this means it is possible to lock the valve with the handle extended in the closed position and it will be impossible to accidentally open the valve and also substantially impossible for a child to open the valve.

It will be understood that modifications may be made in the design and arrangement of the parts without departing from the spirit of the invention.

What is claimed is:

1. A safety latch for gas valves comprising a bar having a fork extended from one end, a recess in one side and an opening in the end opposite to the end on which the fork is positioned, and a clip having a projection providing a stop thereon pivotally mounted on one side of the bar and positioned to cover the recess in the side thereof.

2. A safety latch for gas valves comprising a bar having a fork extended from one end, a recess in one side and an opening in the end opposite to the end on which the fork is positioned, and a clip pivotally mounted on one side of the bar and positioned to cover the recess in the side thereof, said bar having an offset therein spaced from the end in which the opening is positioned and said clip having a projection on one edge providing a stop for retaining the clip in the position of closing the recess in the side of the bar.

3. A safety latch for gas valves comprising a bar having a fork extended from one end, a recess in one side and an opening in the end opposite to the end on which the fork is positioned, and a clip pivotally mounted on one side of the bar and positioned to cover the recess in the side thereof, said bar having an offset therein spaced from the end in which the opening is positioned, and said clip having a stop positioned on one edge thereof for limiting the closing movement thereof.

4. A safety latch for gas valves comprising a bar having a fork extended from one end, a recess in one side and an opening in the end opposite to the end on which the fork is positioned, and a clip pivotally mounted on one side of the bar, with the pivot spaced from the end of the bar in which the opening is positioned, and with the clip positioned to cover the recess in the side thereof, said bar having an offset therein spaced from the end in which the opening is positioned, and said clip having a stop positioned on one edge thereof for limiting the closing movement thereof.

5. In a valve safety device, the combination which comprises a valve body, a stem extended through the said valve body, a handle having a stem extended therethrough mounted on an extended end of the stem, a bar having an opening through one end extended across the valve body and positioned with the opening in the end thereof positioned to receive the stem of the handle whereby the end of the bar in which the opening is positioned is located between the handle and end of the valve stem upon which the handle is mounted, said bar having a recess in one side positioned to receive a shank extended from the valve body, said bar also having a fork extended from the end opposite to the end in which the opening is positioned and said fork positioned to extend over an extended end of the valve stem extended from the opposite end of the valve body, and a clip pivotally mounted on the bar, positioned to cover the recess in the side of the bar and having a stop on one edge thereof for limiting closing movement of the clip.

JESS W. COLWELL.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,079,254	McCarthy	Nov. 18, 1913
1,806,775	Wilde	May 26, 1931
1,839,053	Schaded	Dec. 29, 1931