W. SHACKLETON.

SAFETY GAS VALVE.

APPLICATION FILED MAY 7, 1908.

915,706. **Patented Mar. 16, 1909.**

FIG. 1

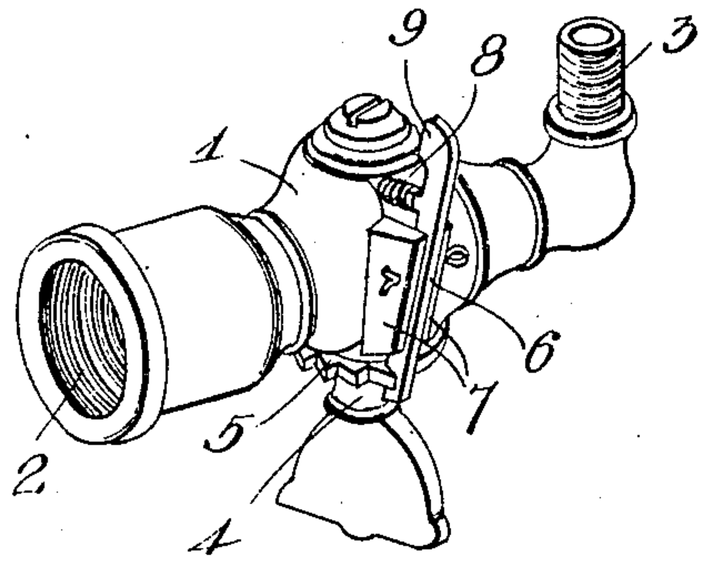
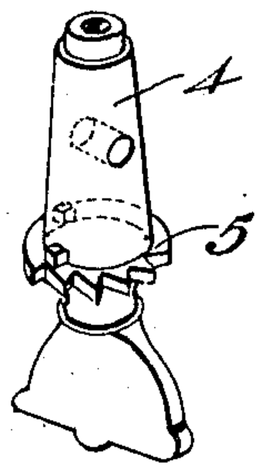


FIG. 2

FIG. 3



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM SHACKLETON, OF FALL RIVER, MASSACHUSETTS.

SAFETY GAS-VALVE.

No. 915,706. Specification of Letters Patent. Patented March 16, 1909.

Application filed May 7, 1908. Serial No. 431,428.

To all whom it may concern:

Be it known that I, WILLIAM SHACKLETON, a citizen of the United States, residing at Fall River, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Safety Gas-Valves; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to gas valves, and particularly to that type used upon light burners although it is well adapted for any type.

The object of the invention is the provision of means which absolutely prevents the accidental turning on of the gas. Frequently serious accidents have been caused by persons brushing against the operating button of the valve and thus turning it so that the gas escaped.

It is the object of my invention to obviate this difficulty, and broadly speaking consists in providing a latching device which absolutely prevents the valve being operated by accident.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claim.

In the drawings, Figure 1 is a perspective view, Fig. 2 is a transverse sectional view, and Fig. 3 is a detail perspective view of the plug removed.

Referring more especially to the drawings, 1 represents the valve casing which as usual is supplied with a connecting nipple 2, and a jet nipple 3. Seated in the casing is the usual aperture turning plug 4, which closes the outlet to the jet nipple 3. Secured to the bottom of this turning plug is a notched disk 5, adapted to be engaged by the lower end of a pivoted locking pawl 6, carried in between the ears 7, secured to the outer part of the casing and controlled so as to normally keep its locking end in engagement with the disk 5 by a spiral spring 8 which is disposed in a spring pocket formed in the casing 1 above the ears 7. The upper end is provided with a small thumb piece 9, which is adapted to be engaged by the finger of the operator so that its lower engaging end may be disengaged from the disk 5. The pawl 6 is formed with an inwardly projecting lug or finger for holding the spring 8 in the spring pocket, said lug or finger forming a stop limiting the inward movement of said pawl.

In the position shown in Fig. 1 the valve is locked in closed position, while in the position shown in Fig. 2 the vavle is in open position. It will be seen readily from the perspective and from the sectional view that the valve cannot be turned to open the same unless the thumb piece is operated, although it may be closed at any time, the locking pawl riding idly over the notches which are formed raking or in the form of ratchet teeth.

It will be noted that the operation of the pawl 6 in no way tends to loosen the connection between the valve casing 1 and the turn plug 4, as the pawl bears directly on the notched disk 5 which is arranged below the casing.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined in the appended claim.

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

The combination with the valve casing having a pair of transversely spaced ears formed on one side thereof, said casing being formed with a spring receiving pocket located thereon above the spaced ears, a pawl having a thumb piece formed on its upper end removably pivoted between the ears, said pawl being provided with an inwardly projecting lug adapted to enter the spring pocket; forming a limiting stop for said pawl, a spring disposed in the pocket and around the lug for holding the thumb

piece away from the casing, a turn plug having a downwardly projecting handle portion extending through the casing and secured thereto, and an enlarged disk secured on the turn plug below the valve casing, and in position thereon to be engaged by the pawl.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM SHACKLETON.

Witnesses:

JOHN T. JARVIS,

JOSEPH SELBY.