

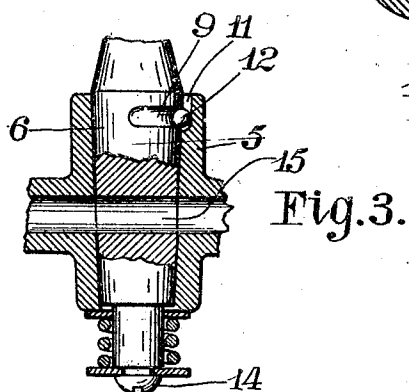
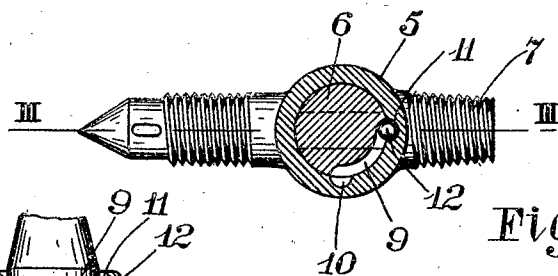
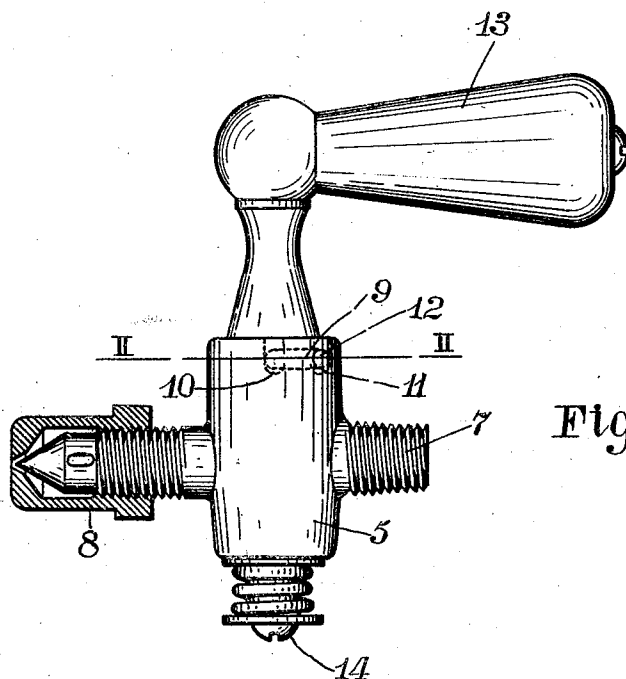
July 14, 1931.

S. VAN ETTEN

1,814,534

GAS COCK

Filed April 4, 1928



Inventor
SCOTT VAN ETTEN

By *Frederick J. J. J.*
his Attorneys

UNITED STATES PATENT OFFICE

SCOTT VAN ETTEN, OF MARYSVILLE, OHIO

GAS COCK

Application filed April 4, 1928. Serial No. 267,291.

This invention relates more particularly to valves for gas burning stoves, ranges and the like. Heretofore such valves have been provided with an elongated notch in the case and a pin in the plug to limit the movement of the plug from closed to open position and conversely. Such a construction was not only expensive to manufacture but was also unsightly and the pin was often likely to break off.

The object of the present invention is to provide an improved and simplified means for limiting the movement of the plug whereby the cost of production is lessened and the limiting means substantially concealed thereby enhancing the appearance of the valve.

The invention is embodied in the example herein shown and described, the feature of novelty being finally claimed.

In the accompanying drawing—

Figure 1 is a view mainly in side elevation of a valve according to the preferred form of the invention with a part in section.

Fig. 2 is a section on the line II—II Fig. 1.

Fig. 3 is a fractional section on the line III—III, Fig. 2.

In the views 5 designates the valve casing containing the usual tapered seat for the tapered plug 6. The casing has the usual threaded connections at 7 for the gas supply and an ordinary valve-seat-containing cap at 8 for the supply of gas to the burner.

In the present instance the plug above the gas passage 15 therein is provided with a peripheral groove 9 of generally semi-circular cross section and extending about a quadrant around the plug with one of its terminals in line with one of the ends of said gas passage and its other terminal in a line at right angles to said passage. In the valve casing and in the plane of said groove 9 are formed two sockets 10 and 11 with which the terminals of the arcuate slot can be coincided. These sockets are extended to the rim of the casing as shown by broken lines in Fig. 1, so that by placing a hard ball 12 in the arcuate slot in line with the entrance to the socket while the plug is partly but sufficiently removed from the seat and then shoving the

plug to its seat and securing the plug in the seat by the usual screw 14, a washer and a spring, as shown, the ball occupies jointly the groove and the socket and is therefore retained in the socket. The ball, it will be observed, serves as a stop to limit the oscillation of the plug by the handle 13.

When said ball is secured in the socket 11, as above described, the operation of the handle 13 is right handed, so called, to close the cock and when placed in the socket 10 the operation is left handed to close the cock.

The forms and relative positions of the parts can be changed without departing from the gist of the invention as claimed.

What I claim is:

1. In a rotary valve including a valve casing having a plug seat and a plug to fit in said seat, one of said parts provided with a single segmental groove lying entirely below the plane of the entrance of the casing and the other with two sockets spaced apart a distance substantially equal to the distance between the terminals of the groove, and a stop member adapted normally to occupy jointly said groove and one of said sockets to limit the oscillation of the plug for right or left hand operation, according to the socket occupied by the stop, for opening and closing the plug in said seat.

2. In a rotary valve including a valve casing having a plug seat, a plug to fit in said seat and a stop member, said plug provided with a single segmental groove lying entirely below the plane of the entrance of the casing and said casing having elongated sockets forming entrances for the stop member to the casing, said stop member adapted normally to occupy jointly said groove and one of said sockets to limit the oscillation of the plug for right or left hand operation, according to the socket occupied by the stop member, for opening and closing the plug in said seat.

SCOTT VAN ETTEN.