N. H. FITZ GERALD AND O. J. MARVIN.

VALVE SEALING DEVICE.

APPLICATION FILED MAY 25, 1922.

1,435,832. Patented Nov. 14, 1922.

Fig. 1

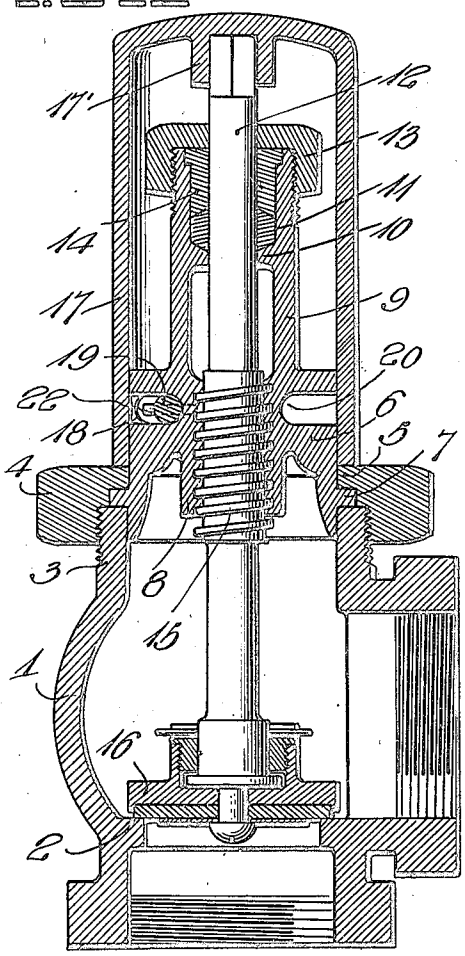
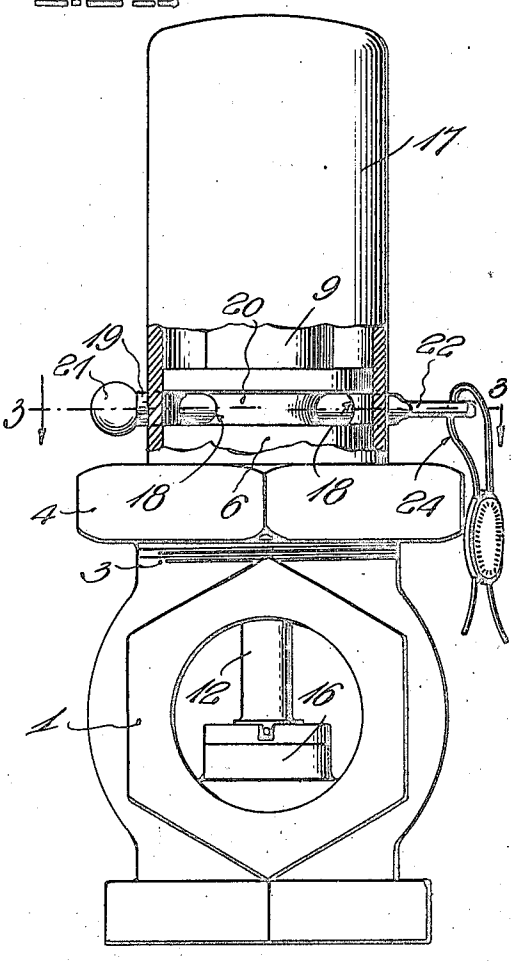


Fig. 2



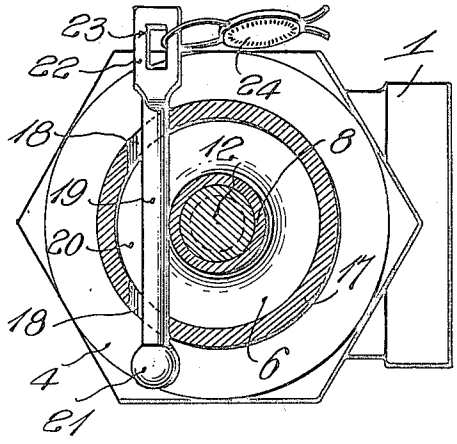


Fig. 3

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Patented Nov. 14, 1922. 1,435,832

UNITED STATES PATENT OFFICE.

NICHOLAS H. FITZ GERALD AND OSCAR J. MARVIN, OF FINDLAY, OHIO.

VALVE-SEALING DEVICE.

Application filed May 25, 1922. Serial No. 563,556.

To all whom it may concern:

Be it known that we, NICHOLAS H. FITZ GERALD and OSCAR J. MARVIN, citizens of the United States, residing at Findlay, in the county of Hancock and State of Ohio, have invented certain new and useful Improvements in Valve-Sealing Devices, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to valves and one object of the invention is to provide a valve so constructed that it may be sealed and thus prevented from being tampered with by unauthorized persons.

Another object of the invention is to so construct the valve that the hood portion may be easily and quickly put in place upon the head which carries the valve stem and secured in place by a pin which passes transversely through the hood and has one end projecting and perforated to receive a sealing lead or lock.

Another object of the invention is to so construct the head of the valve body through which the stem passes that the securing pin may be readily passed through an annular groove provided in the head.

This invention is illustrated in the accompanying drawings, wherein:

Figure 1 is a view showing the improved valve and hood in vertical section.

Figure 2 is a view showing the valve and hood in elevation with a portion of the hood broken away.

Figure 3 is a transverse sectional view taken along the line 3—3 of Fig. 2.

This improved valve is provided with a body or housing 1 having the usual valve seat 2 and above this valve seat provided with a neck portion 3 which is externally threaded to carry an internally threaded securing nut or collar 4 provided with an inwardly extending annular flange 5. The head 6 of the valve housing or body fits into the neck 3 and is provided with an outstanding flange or shoulder 7 which rests upon the upper edge of the neck and will be engaged by the flange 5 of the collar 4 so that when this collar 4 is screwed tightly down upon the neck 3, the head will be securely held in place. This head is provided with an internally threaded sleeve 8 and above the sleeve is provided with an upwardly extending neck portion 9 externally threaded at its upper end and adjacent its upper end provided with an internal shoulder 10. This internal annular shoulder 10 provides a pocket 11 in the upper portion of the neck 9 to receive packing which may be pressed into tight engagement with the valve stem 12 when the packing nut 13 is screwed down upon the threaded upper end portion of the neck and forces the packing gland 14 downwardly into the pocket. The valve stem 12 is provided intermediate its length with a threaded portion 15 to engage the threads of the internally threaded sleeve 8 and has its lower end in swiveled connection with a valve head 16 movable onto and off of the valve seat 2. The valve stem extends through the nut 13 and when it is to be turned to move the valve head onto or off of the valve seat, its upper end will be engaged by a suitable turning device. When the valve is closed, this turning device will be removed. In order to prevent opening of the valve by unauthorized persons, there has been provided a hood 17 which fits upon the head 6 and rests upon the upper face of the nut or collar 4. The upper end of this hood is provided with a seat 17′ to receive the upper end of the valve stem and the walls are provided with alined passages 18 through which a pin 19 may be passed. This pin 19 will be passed inwardly through one of the openings 18 and will then be passed through an annular groove 20 formed in the head 6 of the valve housing and will then be passed outwardly through the second opening 18. At one end the pin is provided with an enlarged head 21 by which it will be grasped when inserted or removed. At its other end, the pin is flattened as shown at 22 and provided with an opening 23 so that a lock or lead and wire seal 24 can be put in place to prevent removal of the pin by unauthorized persons. By having the head 6 provided with an annular groove, no special care need be taken when putting the hood in place. It will thus be seen that this valve is so constructed that when shut, the hood can be put in place and secured against removal. This valve will be used for tank cars, storage tanks, and at any point where it is desired to permit the flow of material through a valve to be shut off and unauthorized persons prevented from opening the valve.

We claim:

1. A valve housing having a valve seat and a neck portion above the valve seat, a head removably held in engagement with

said neck and having a circumferentially extending groove, a valve stem extending through said head and having threaded engagement therewith, a valve head carried by said stem and movable into and out of engagement with said valve seat, a hood fitting over and enclosing said head and having opposed side openings registering with said groove, and a securing pin passing through the openings and groove and having its ends projecting beyond the hood, one end portion of said pin having an opening for receiving an element preventing withdrawal of the pin.

2. The structure of claim 1 having the head for the housing provided with outstanding means for engaging the neck of the housing, and a securing collar screwed upon said neck and engaging the outstanding neck engaging means, the hood having engagement with the collar to prevent movement of the collar to a head releasing position when the hood is secured in place.

3. A valve housing having a valve seat and a neck portion above the valve seat, a head for said housing removably held in engagement with the neck portion thereof and having a central internally threaded sleeve and an upwardly extending neck portion, the head having adjacent its upper end a circumferentially extending groove, a valve seatable upon the valve seat and having a valve stem extending through the sleeve and neck of said head and having threaded engagement with the sleeve, a hood fitting about the head and neck portion thereof and having a pocket receiving the upper end of said valve stem and having side openings registering with the circumferential groove of the head, and a securing pin passing through the side openings and groove to hold the head in place and having one end provided with a head and the other end with a fastener receiving opening.

In testimony whereof we hereunto affix our signatures.

NICHOLAS H. FITZ GERALD.
OSCAR J. MARVIN.