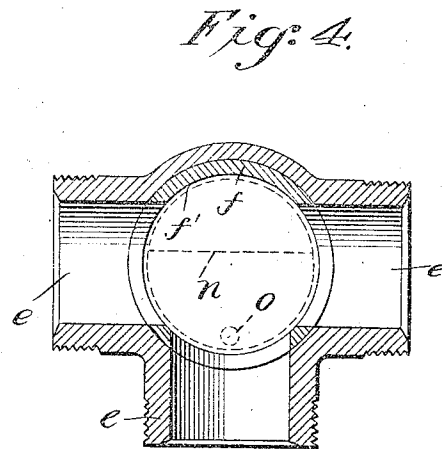
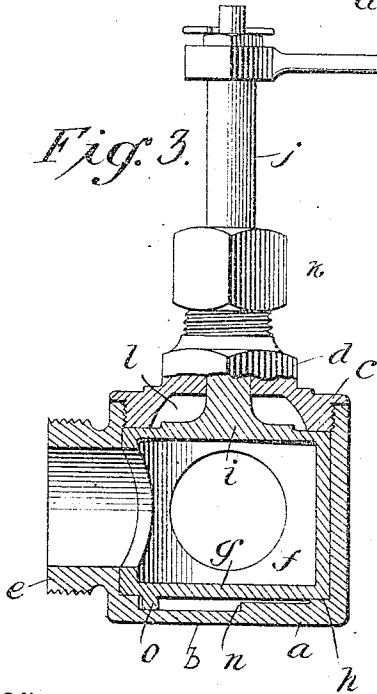
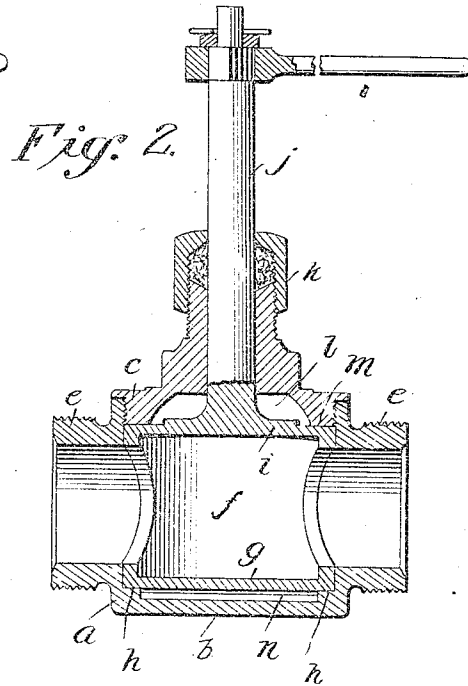
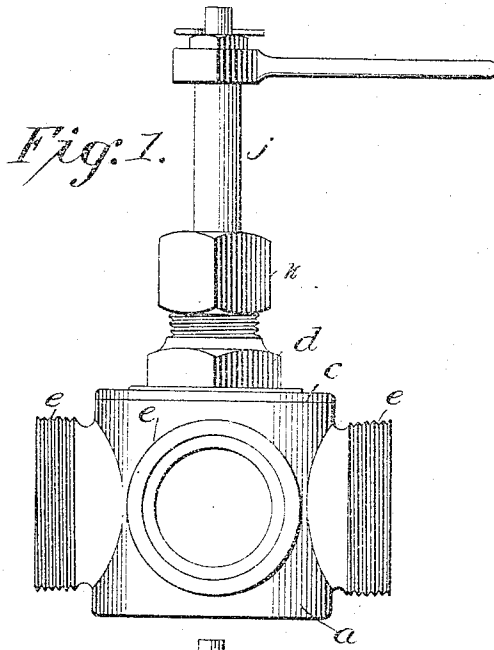


J. J. WINNOW.
VALVE.
APPLICATION FILED JUNE 3, 1911.

1,008,097.

Patented Nov. 7, 1911.



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UNITED STATES PATENT OFFICE.

JOHN JOSEPH WINNOW, OF MOBILE, ALABAMA.

VALVE.

1,008,097.

Specification of Letters Patent.

Patented Nov. 7, 1911.

Application filed June 3, 1911. Serial No. 631,172.

To all whom it may concern:

Be it known that I, JOHN J. WINNOW, a citizen of the United States of America, and a resident of Mobile, county of Mobile, and State of Alabama, have invented certain new and useful Improvements in Valves, of which the following is a full and clear specification, reference being had to the accompanying drawings, in which—

10 Figure 1 is a side elevation of my improved valve; Fig. 2 a vertical sectional view thereof; Fig. 3 a similar view at right angles to the line on which Fig. 2 is taken; and Fig. 4 a horizontal sectional view.

15 The object of this invention is to provide a simple and inexpensive three-way valve which shall be especially adapted for use on steam locomotives for the purpose of throwing the steam into the ash pan to blow the ashes out, the construction being such that the valve will wear its own seat and may be readily maintained in a non-leaking condition, as more fully hereinafter set forth.

Referring to the drawing by reference 25 characters *a* designates a cylindrical valve casing whose bottom is closed by an integral wall *b* and whose top is closed by a disk *c* screwed thereinto, this disk being provided with an angular or nut-like projection to receive a wrench. This valve casing is provided with three openings in its side wall and each of these openings is provided with a threaded nipple *e* adapted for connection to the inlet and outlet pipes.

35 Fitting within the casing is a hollow cylindrical valve plug *f* having formed in its vertical wall a series of three openings spaced apart to adapt them to be brought into register with the several openings in the valve casing. The bottom of this plug is closed by a solid wall *g*, which around its edge bears down upon an upwardly facing annular seat *h* raised slightly from the bottom wall. The upper end of this plug is closed by a solid 45 integral wall *i*, and rising centrally from this wall is a cylindrical stem *j* which extends up and out through the center of the disk *c*. The disk *c*, on top of its angular projection *d*, is provided with a stuffing box *k* of any suitable type. The disk *c* has its under side hollowed out at *l* forming an annu-

lar seat *m* which bears down upon the upper face of the top wall *i*.

In the position shown in the drawing the plug is positioned so that all the valve openings communicate with each other. By a 55 quarter turn in either direction it will be observed that either of the lateral or alined openings may be cut off from the middle opening while the other lateral openings will 60 communicate with said middle opening, a suitable segmental part *f'* of the wall being provided for thus closing one of the alined openings. To stop the valve plug in either of these latter positions, I provide a stop lug 65 *o* depending from the bottom of the valve plug near one edge thereof and provide the bottom wall of the valve casing with an upwardly projecting transverse shoulder *n*, so positioned that the lug *o* will strike against 70 the shoulder when the plug is turned in either direction to close one of the lateral openings.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is— 75

In a valve, the combination of a cylindrical casing having a series of openings in its side wall and having its bottom closed and its top provided with a threaded opening, said bottom wall being provided with a raised upwardly facing annular seat around its edge, a hollow cylindrical valve plug fitting in said casing and having its bottom closed and provided with an annular seat 85 adapted to abut against the upwardly facing seat of the bottom wall of the casing, the upper end of said plug being closed and provided with a central stem, and a closure disk surrounding said stem and screwed into the 90 upper end of the valve casing, this closure disk being provided with an annular downwardly facing seat bearing directly against the upper end of the valve plug, this disk being provided with a stuffing box which 95 surrounds the aforesaid stem.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

JOHN JOSEPH WINNOW.

Witnesses:

W. E. LEMP,
A. M. PAYNE.