

No. 675,979.

Patented June 11, 1901.

H. J. SCHMITT.
VALVE.

(Application filed Mar. 12, 1901.)

(No Model.)

FIG. 1.

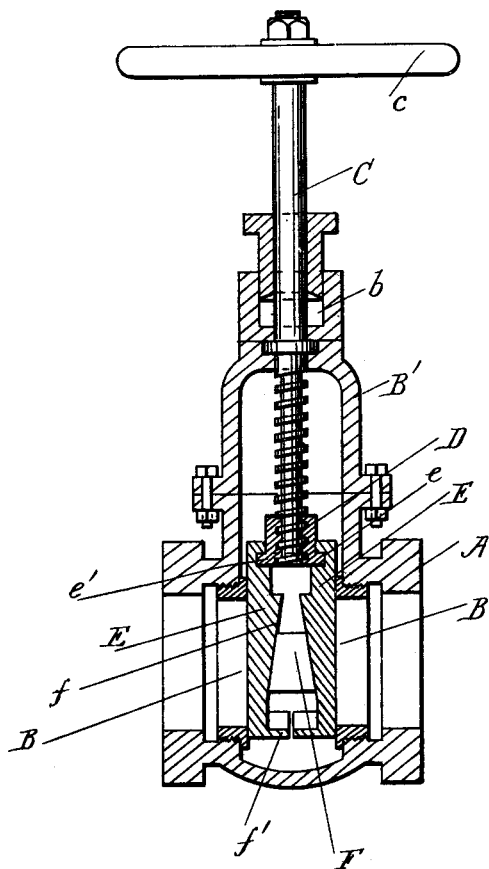


FIG. 2.

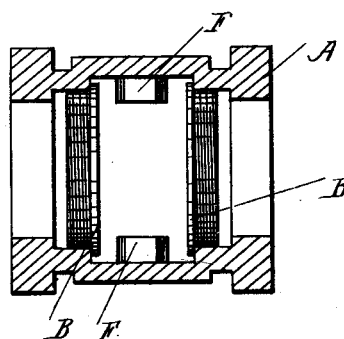
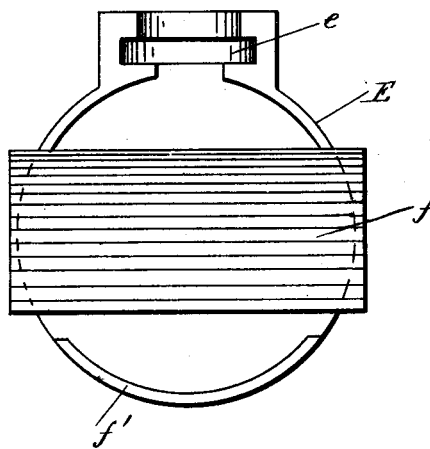


FIG. 3.



WITNESSES

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HENRY JOSEPH SCHMITT, OF WYNDMOOR, PENNSYLVANIA.

VALVE.

SPECIFICATION forming part of Letters Patent No. 675,979, dated June 11, 1901.

Application filed March 12, 1901. Serial No. 50,790. (No model.)

To all whom it may concern:

Be it known that I, HENRY JOSEPH SCHMITT, a citizen of the United States, residing at Wyndmoor, in the county of Montgomery and State of Pennsylvania, have invented certain new and useful Improvements in Valves; and I do hereby 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.

This invention relates to valves for water, steam, and other fluids; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a vertical section through the valve. Fig. 2 is a sectional plan view. Fig. 3 is a detail view of one of the valve-plates.

A is the body of the valve, and B represents two valve-seats, which are preferably screwed into the body of the valve and which are arranged parallel with each other.

B' is a bonnet secured to the upper part of the body A and provided with a stuffing-box b.

C is the valve-spindle, journaled in the stuffing-box and provided with an operating wheel or handle c. The valve-spindle C is screw-threaded, and it engages with a valve-carrier D. In the valve shown the carrier D is screw-threaded to fit the valve-spindle; but the valve-spindle may be made to move vertically, if desired, and it may be connected to the valve-carrier in any approved manner, so as to raise and lower the said carrier.

E represents two valve plates or disks provided with sockets e at their upper parts,

which engage with projections e on the carrier. The plates E have inclined surfaces f on their backs and have flanges f' on their lower edges.

F represents wedge-shaped projections on the inside of the body or casing A, which come between the surfaces f when the valve-plates are lowered.

The valve is opened by raising the valve-plates by means of the valve-spindle, and the flanges f' then keep the plates from coming together at their lower edges. When the valve-plates are pushed down by means of the valve-spindle, the inclined surfaces f bear against the projections F and are forced apart by them, so that the said valve-plates are pressed into close contact with the valve-seats and the valve is closed tightly.

What I claim is—

In a valve, the combination, with a valve-body provided with two valve-seats, and having two projections F which project laterally toward each other from the sides of the body between the valve-seats; of two valve-plates having inclined plane surfaces f on their backs which bear against the said lateral projections when the said valve-plates are pressed downward, and means for raising and lowering the said valve-plates, substantially as set forth.

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

HENRY JOSEPH SCHMITT.

Witnesses:

WILLIAM WALKER HARPER,
ADDISON J. BENN.