(No Model.)

E. R. TOMLINSON.

VALVE.

No. 305,722. Patented Sept. 23, 1884.

Fig 1

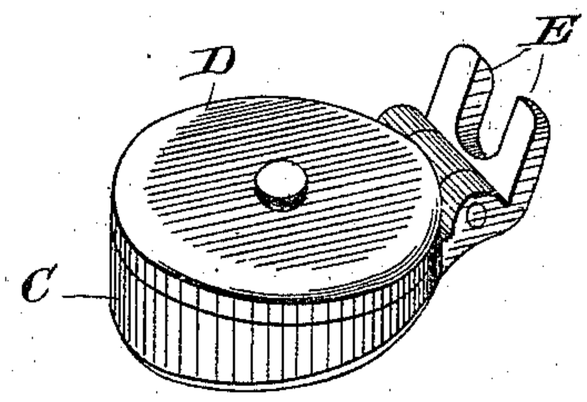
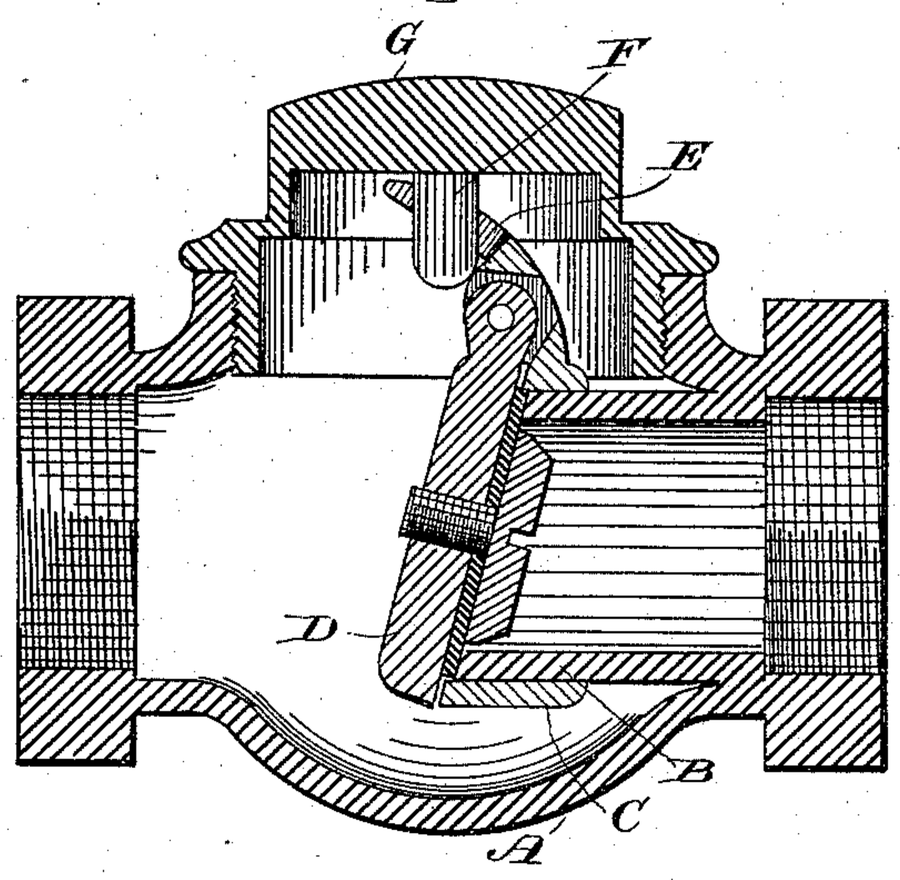


Fig 2



Witnesses
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UNITED STATES PATENT OFFICE.

EDWIN R. TOMLINSON, OF WEST STRATFORD, CONNECTICUT.

VALVE.

SPECIFICATION forming part of Letters Patent No. 305,722, dated September 23, 1884.

Application filed March 13, 1884. (No model.)

To all whom it may concern:

Be it known that I, EDWIN R. TOMLINSON, a citizen of the United States, residing at West Stratford, in the county of Fairfield and State of Connecticut, 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.

My invention relates to certain novel and useful improvements in valves, but more especially to that particular class of valves known as "clack-valves," and has for its object to so construct and arrange a device of this description that any irregular wear on the packing or seat shall be compensated for; and with this end in view my invention consists in the details of construction and combination of elements hereinafter fully and in detail explained, and then specifically designated by the claims.

In order that those skilled in the art to which my invention appertains may more fully understand its construction and operation, I will proceed to describe the same, referring by letter to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a detail perspective view showing the valve pivoted to the yoke, and Fig. 2 a central vertical section of my improved valve in operative position.

Similar letters denote like parts in both figures of the drawings.

A is the casing, and B the valve-seat arranged therein. C is a yoke adapted to surround the seat, and D the valve pivoted to said yoke, as shown at Fig. 1.

E is a fork projecting upwardly from the rear of the yoke, and F is a pin or projection secured to or cast integral with the cap G, and adapted to extend within the fork when the several parts are in their proper operative position, as clearly seen at Fig. 2. In devices of this description the valve has been pivoted to the casing, and the wear on the packing or the seat being chiefly at the forward portion thereof the valve is rendered useless in a short time, owing to the consequent imperfect seating of the same.

My improvement is applicable to horizontal and vertical valves, and overcomes this difficulty, since the yoke is free to move along the extension of the valve-seat, and as fast as the seat becomes worn away the valve will be automatically adapted to close on said seat closely, because its normal position will have been changed, owing to the dropping of the yoke, if in a vertical valve, or the sliding backward of the same, if a horizontal valve. When the valve is raised, the yoke will drop down slightly or slide backward, as the case may be, and at the closing of the valve the weight of the latter or the steam-pressure will cause the yoke to be returned to its normal position. The ralative position of the pin and fork prevents the yoke from wabbling or having any unsteady movement.

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

1. In a valve as described, a yoke extending around the valve-seat, and having a free play longitudinally thereof, in combination with the valve pivoted at the rear of said yoke, substantially as set forth.

2. In a valve as described, the yoke having at its rear end a fork projection, and adapted to surround the seat, and having the valve pivoted thereto, in combination with the cap provided with a pin adapted to project within said fork, substantially as hereinbefore shown and set forth.

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

EDWIN R. TOMLINSON.

Witnesses:
S. S. WILLIAMSON,
W. T. HAVILAND.