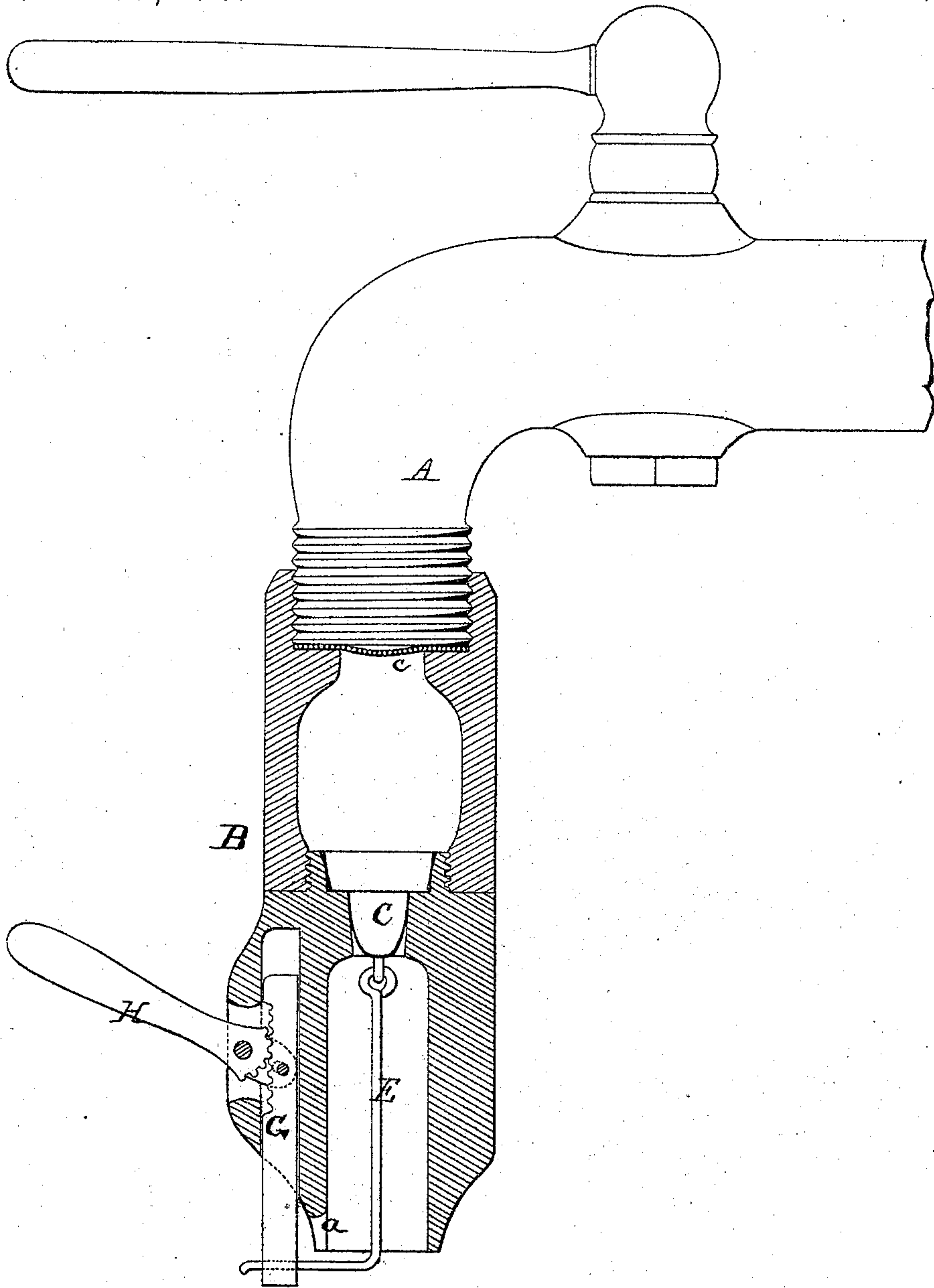


H. P. YEOMANS.

Improvement in Automatic Hydraulic Valves.

No. 133,284.

Patented Nov. 19, 1872.



WITNESSES.

*Geo. Elphinstone*  
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# UNITED STATES PATENT OFFICE.

HENRY P. YEOMANS, OF NEW YORK, N. Y.

## IMPROVEMENT IN AUTOMATIC HYDRAULIC VALVES.

Specification forming part of Letters Patent No. 133,234, dated November 19, 1872.

*To all whom it may concern:*

Be it known that I, HENRY P. YEOMANS, M. D., of New York, in the county of New York and State of New York, have invented a new and valuable Improvement in Automatic Hydraulic Valves; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

The figure of the drawing is a representation of a sectional view of my invention.

My invention has relation to valves for regulating the flow of water from hydraulic pipes; and consists in the novel construction of a valve, a lever, and means of connection, as hereinafter described, by which the exit of water is regulated and automatically stopped.

A of the drawing represents an ordinary hydraulic pipe, to which my apparatus may be applied. B represents a cylinder adapted for attachment to the pipe A, as shown. I usually construct this pipe B in two sections, for convenience in the manufacture thereof; but I may, when desirable, construct it in one piece only. C represents a valve, and D the valve-seat. E represents a rod attached to the valve, and extending downward to or below the bottom of the tube. G represents a sliding bar, to which the bent end of the rod E is attached; and H is an operating-lever, pivoted in the side of the tube, as shown.

It will be observed that I form a recess in the side of the tube, to permit the bar G to be moved up and down; and I also cut a slot, as shown at *a*, to provide room for the play of

the rod or coupling E. I usually place a strainer over the top of my tube, as shown at *c*; and sometimes construct the lever H with a ratchet-head, and cut teeth upon the side of the bar G adapted to operate therewith; but neither of the last-named devices are indispensable. The apparatus will perform good service by pivoting the lever to the bar, and the strainer, in some kinds of water, is not required.

My device operates as follows: The operator lowers the lever H, and thereby the water is permitted to escape for such length of time as said lever is held down. When sufficient water is drawn the lever is released, and the valve is forced to its seat by the water-pressure above it.

It will readily be observed that, inasmuch as the flow of water is cut off the moment the lever ceases to be held down, no waste is permitted, as frequently occurs when an ordinary faucet is opened by a careless operator.

My device is adapted for use not only in ordinary hydraulic pipes, but also in exit-pipes for all fluids from casks or other vessels.

What I claim as new is—

The apparatus for regulating the exit of water from an hydraulic pipe, having tube B, valve C, rod E, bar G, and lever H, constructed and arranged substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HENRY P. YEOMANS, M. D.

Witnesses:

GEO. E. UPHAM,  
D. D. KANE.