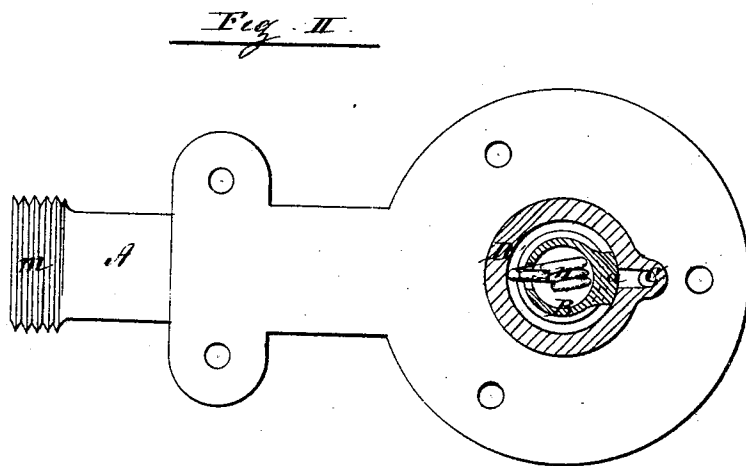
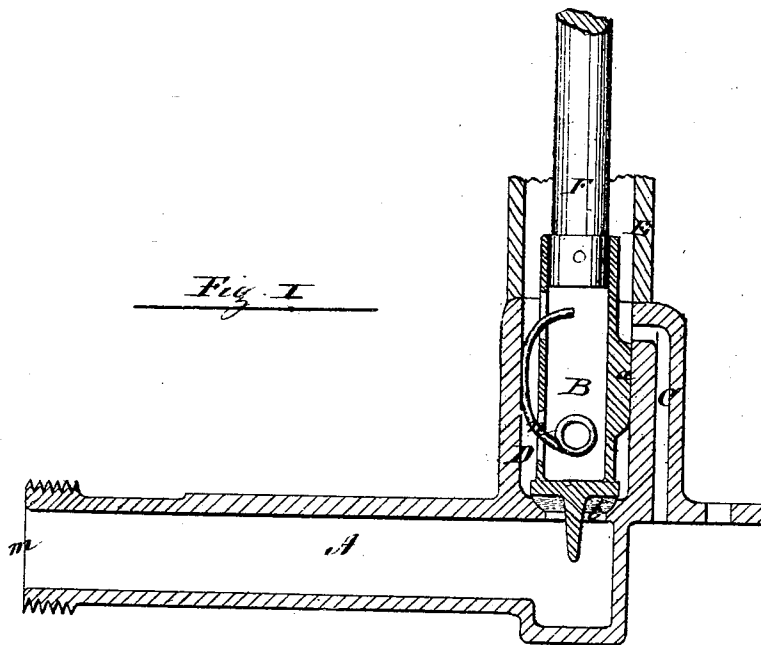


J. P. Hyde,

Hydrant.

No. 102,126.

Patented Apr. 19, 1870.



Witnesses

Henry C. Roeder
John Christ

Inventor

James P. Hyde

United States Patent Office.

JAMES P. HYDE, OF NEW YORK, N. Y.

Letters Patent No. 102,126, dated April 19, 1870.

IMPROVEMENT IN HYDRANTS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, JAMES P. HYDE, of New York, in the State of New York, have invented certain Improvements in Hydrants, of which the following is a specification.

The nature of my improvement consists in the arrangement of a suitable spring in the valve-cylinder, whereby the surface on said cylinder, which covers the waste-opening when the valve-cylinder is raised upward to open the hydrant-valve, will be kept tight against said waste-opening, and prevent thereby the escape of water through this waste opening during the time the hydrant is kept open.

Figure I represents a longitudinal section of a hydrant embodying my invention; and

Figure II is a plan of the same, partly in section.

In the accompanying drawing—

A represents the valve-chamber, attached at *m* to the water-pipe, and provided with a cylindrical cup, D, on the top of which the pipe E is attached.

In the lower part of this cylindrical cup D the valve-seat *b* is arranged, and near the top of said cup D a waste-passage, C, is provided.

B is the valve-cylinder, the lower end of which forms the valve fitting into the valve-seat *b*, and to the upper end of which the rod F for operating this valve-cylinder, to open or close the valve, is attached, the whole being arranged in the usual manner.

To the side of this valve-cylinder B a projecting surface, *a*, is provided, fitting the inner surface of the cylindrical cup D, and so arranged that, when the valve *b* is opened, this surface, *a*, will cover the opening of the waste-passage C, and will uncover or open the said opening as soon as the valve *b* is closed, for the purpose of allowing the water remaining in the pipe E to escape through this waste-passage C.

To this valve-cylinder B a spring, *n*, is arranged, projecting on the side of said cylinder directly opposite the projecting surface *a*, so as to bear against the inner side of the cylindrical cup D, in such a manner as to keep this surface *a* tight against the surface of the cup, and prevent thereby, when said surface *a* covers the opening C, any escape of water through said passage C.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the hydrant-valve B, having the additional valve-surface *a*, to close and open the waste-passage *c*; with the spring *n*; arranged to keep the valve-surface *a* pressed close to the opposite surface of the pipe E, substantially as herein specified.

JAMES P. HYDE.

Witnesses:

HENRY E. ROEDER,
JOHN CHRIST.