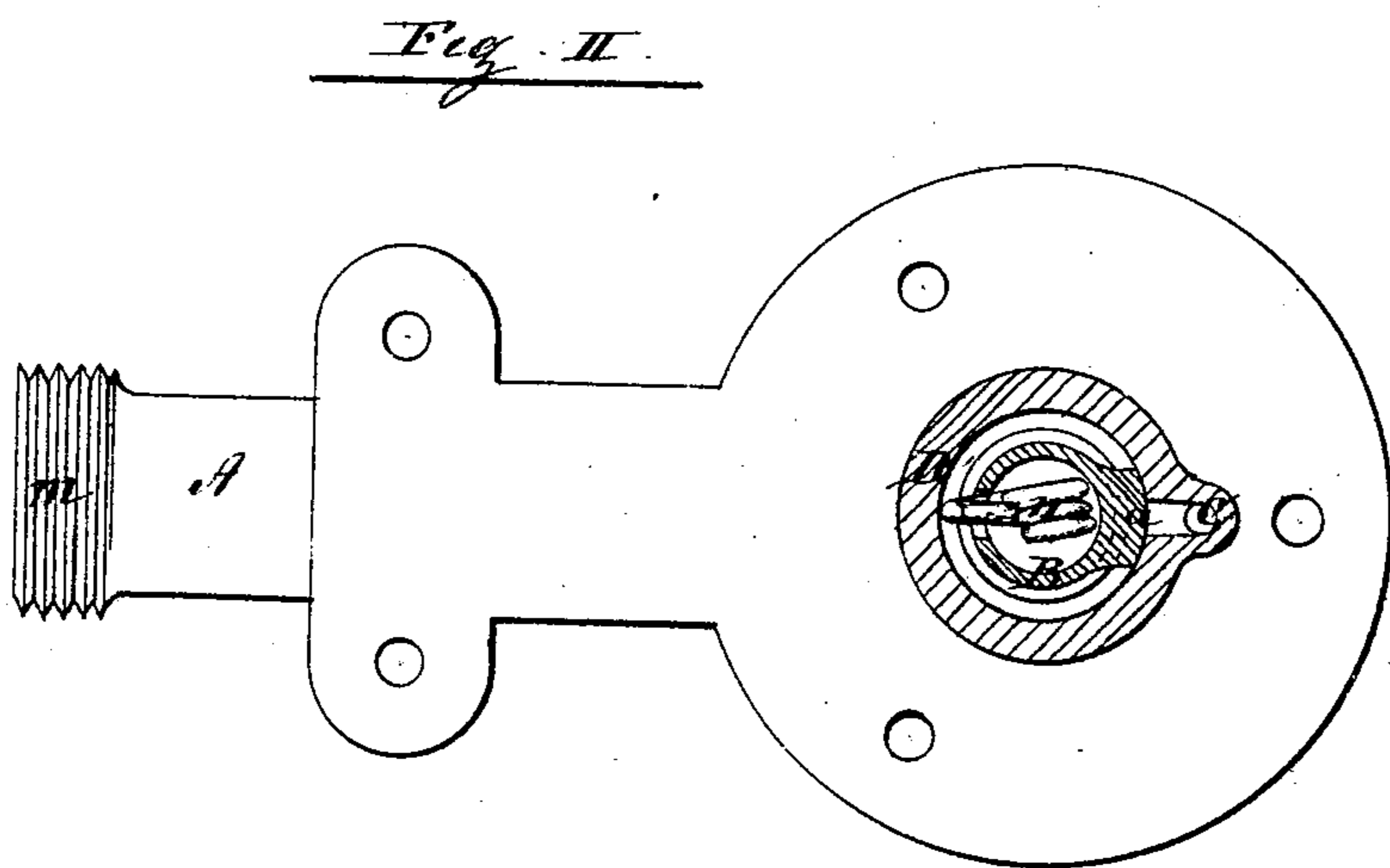
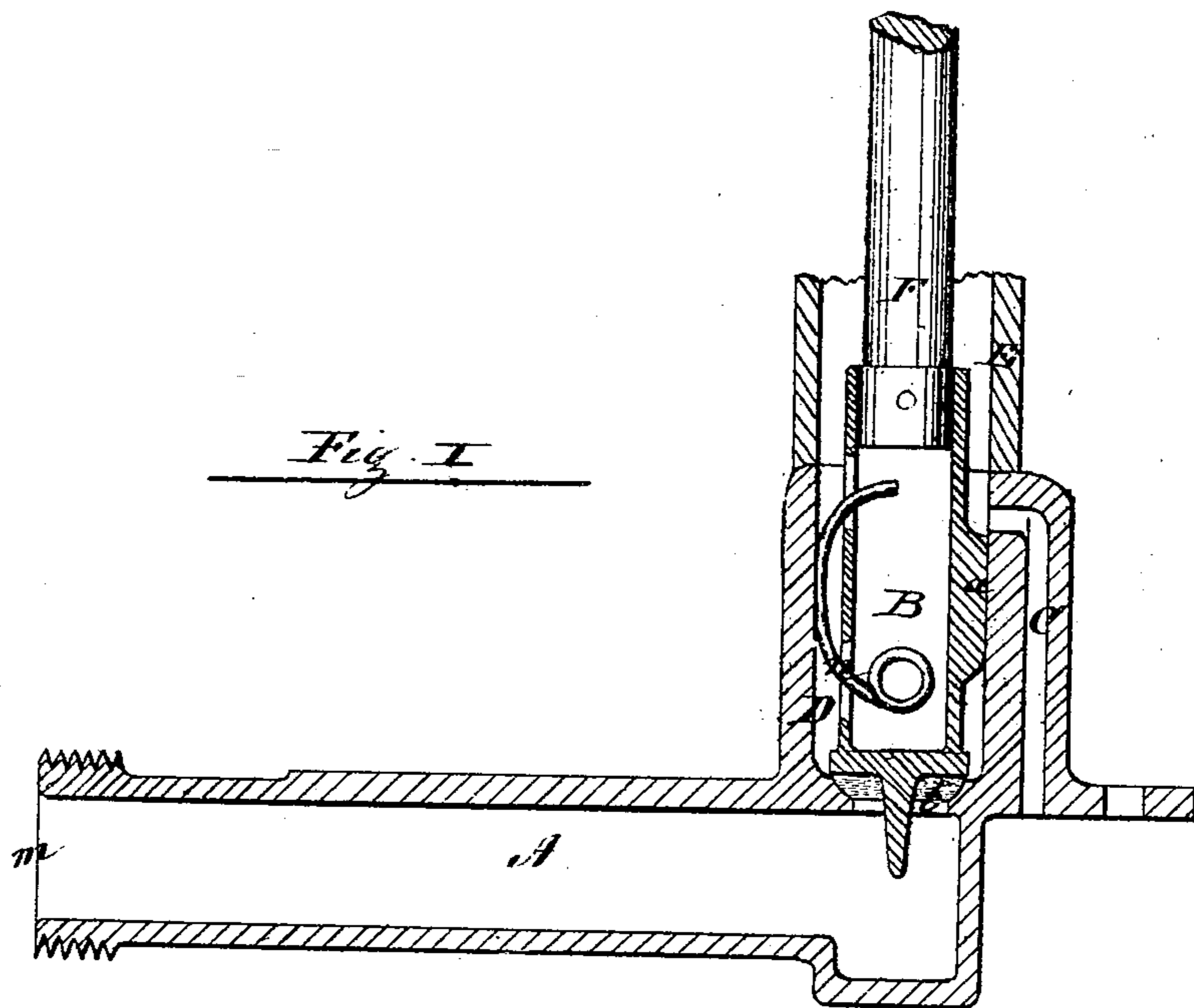


*J. P. Hyde,*

*Hydrant.*

*No. 102,126.*

*Patented Apr. 19. 1870.*



*Witnesses*

*Henry & 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.