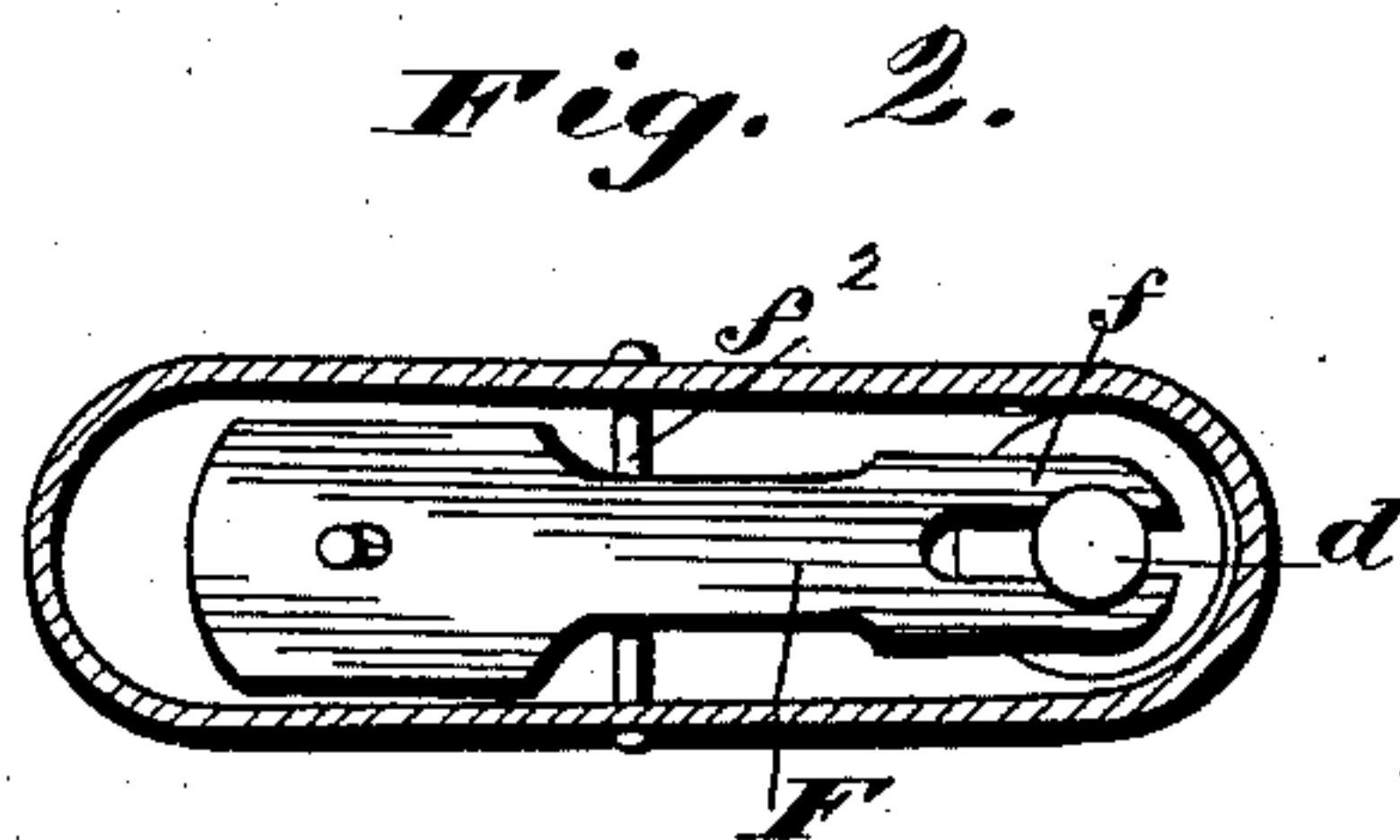
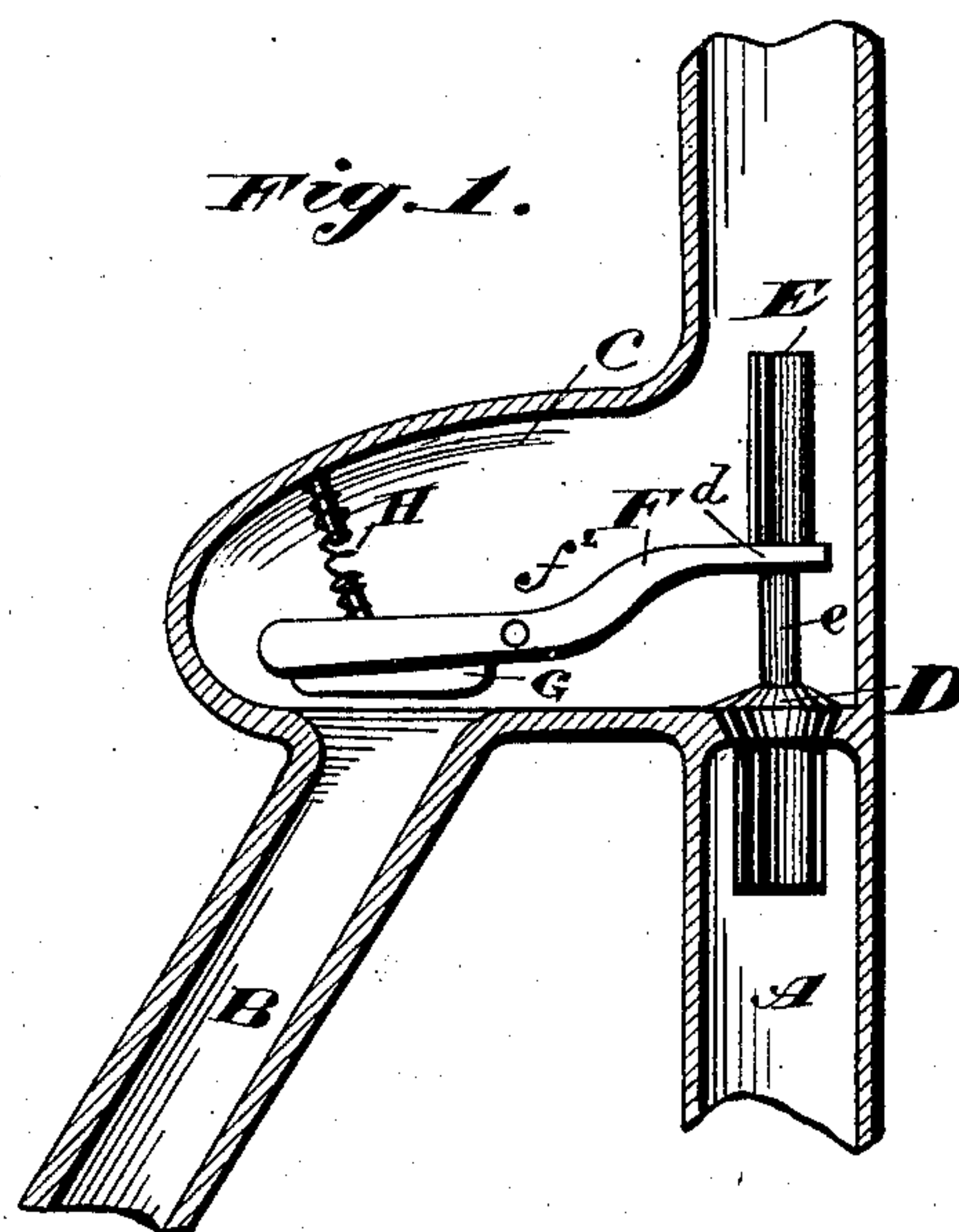


(No Model.)

J. DEUTSCH.
DOUBLE ACTION HYDRANT.

No. 305,058.

Patented Sept. 16, 1884.



WITNESSES

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JOSEPH DEUTSCH, OF CLEVELAND, OHIO.

DOUBLE-ACTION HYDRANT.

SPECIFICATION forming part of Letters Patent No. 305,058, dated September 16, 1884.

Application filed March 19, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH DEUTSCH, a citizen of the United States, residing at Cleveland, county of Cuyahoga, and State of Ohio, have invented certain new and useful Improvements in Hydrants; and I do hereby declare the following to be a description of the same, and of the manner of constructing and using the invention, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it appertains to construct and use the same, reference being had to the accompanying drawings, forming a part of this specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

In the drawings, Figure 1 is a central vertical section, the supply-valve being closed. Fig. 2 is a horizontal section, taken just above the pivotal valve-stem.

A is the supply-pipe, B the waste-pipe, and C is a chamber connecting the two former.

D is the supply-valve, adapted to fit tightly down upon a corresponding valve-seat in the said supply-pipe. This valve is connected with the valve-stem E, said stem being of suitable size at its connecting part *e*, with pivotal valve-stem F, to adapt it to move freely within the bifurcated end *f* of the latter. Valve stem E has the shoulder *d* at a suitable point to adapt it to rest upon the prongs of said stem F. Stem F is pivoted at *f*², and at its end, opposite to its prongs, has depending from it the waste-valve G, said valve being seated

at the top of waste-pipe B. Between valve-stem F and roof of chamber C is the interposed presser-spring H, adapted to maintain valve G upon the mouth of waste-pipe B.

The mode of the operation of my device is as follows: When it is desired that the supply of water should be cut off, valve-stem D, being depressed by device named, shoulder *d* strikes the forks of pivotal stem F and presses said stem down, thereby lifting the opposite end of said pivotal stem, which lifting lifts valve G, and suffers the unused water to escape through pipe B. When stem D is raised for the supply of water, shoulder *d* is lifted from the forks of stem F, which permits the presser-spring H to automatically press down the stem F, and thereby to close the waste-pipe by the valve G.

I claim—

1. In a hydrant, the combination, with valve D, and valve-stem E, having reduced diametric section *e* and shoulder *d*, of waste-valve G, and pivotal valve-stem F, said stem having bifurcated extremity *f*, substantially as set forth.

2. In a hydrant, the combination, with supply-pipe A, chamber C, and waste-pipe B, of valve D, shouldered stem E, pivoted valve-stem F, waste-valve G, and presser-spring H, substantially as set forth.

In testimony that I claim the foregoing to be my invention, I have hereunto set my hand this 17th day of March, A. D. 1884.

JOSEPH DEUTSCH.

Witnesses:

THOS. B. HALL,
MORTON W. COPE.