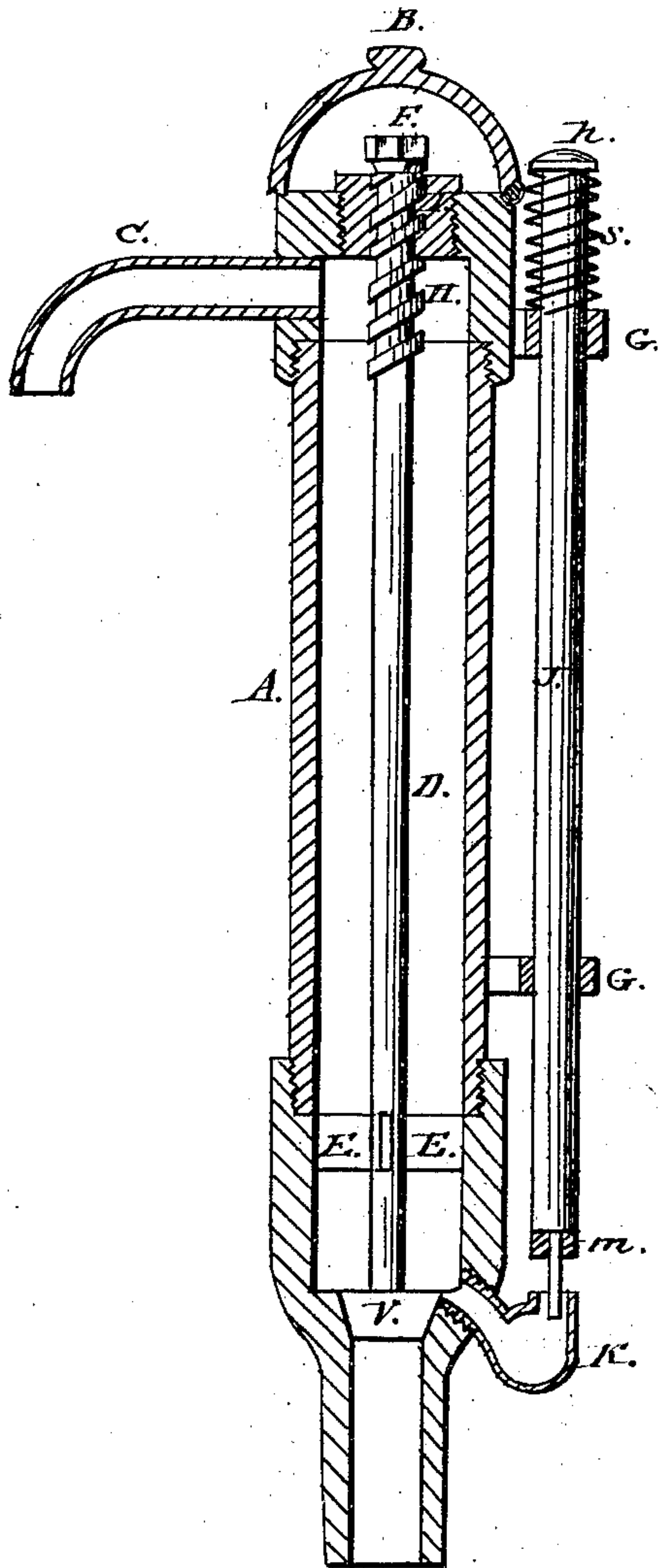


*L. Fittori*

*Hydrant.*

*N<sup>o</sup> 86,384.*

*Patented Feb. 2, 1869.*



**WITNESSES:**

*Wm A. Morgan*  
*G. C. Cotton*

**INVENTOR:**

*L. Fittori*  
*per Wm J. L.*  
*Attorney.*



LUKE FITTON, OF WHEELING, WEST VIRGINIA.

*Letters Patent No. 86,384, dated February 2, 1869.*

**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, LUKE FITTON, of Wheeling, in the county of Ohio, and State of West Virginia, have invented a new and improved Hydrant; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The drawing represents a sectional elevation of my improved hydrant.

This invention refers to an improved hydrant, which is so constructed that the waste water above the valve will escape as soon as the hydrant-top is closed, thereby preventing the waste water from freezing above the valve in winter.

A is the barrel of the hydrant, and is made of common pipe.

B is the hinged top or cap.

C is the spout.

D is the valve-stem.

E are radial wings on the same, to keep the valve centrally in the pipe.

V is the valve, and

S is its seat.

The stem D has a screw-thread, H, which fits in a hollow screw in the plug I, so that by turning the head F on the valve-stem E, the valve V will be lifted or seated.

On the exterior of the hydrant are guides, G, which hold a rod, J, loosely within them.

The lower end of this rod is furnished with a leather washer, m, for fitting, water-tight, on the orifice of a

waste-water spout, K, which latter opens into the bore of the hydrant, just above the valve V.

A spring, S, coiled around the rod J, as shown in the drawing, exerts its tension against the upper guide, also against the flanged head h of the rod, so that when uncompressed, the spring will lift the said rod, and thereby open the waste-water spout K.

This spring is compressed, however, when the top, C, is opened, for the said top impinges on the head h, and thrusts the rod J downward, so that the leather washer closes upon the orifice of the waste-water spout K, thus preventing the egress of the water when the hydrant is being used.

When the hydrant is not in use, the top, C, is closed, and thus it is removed from contact with the head h.

The spring S then forces the rod up, and the washer m from the orifice of the waste-water spout.

By this improvement, the waste water above the valves of hydrants is allowed to escape, thus preventing their being rendered inoperative by freezing up in cold weather, as is the case with the hydrants now in common use.

It is simple, easily repaired, and not expensive.

I claim as new, and desire to secure by Letters Patent—

The combination of the hinged lid B, rod J, spring S, and elastic washer m, with the waste-water spout K of the hydrant, substantially as described, for the purpose specified.

LUKE FITTON.

Witnesses:—

JAS. C. MANSBARGER,  
FREDRICK BYE.