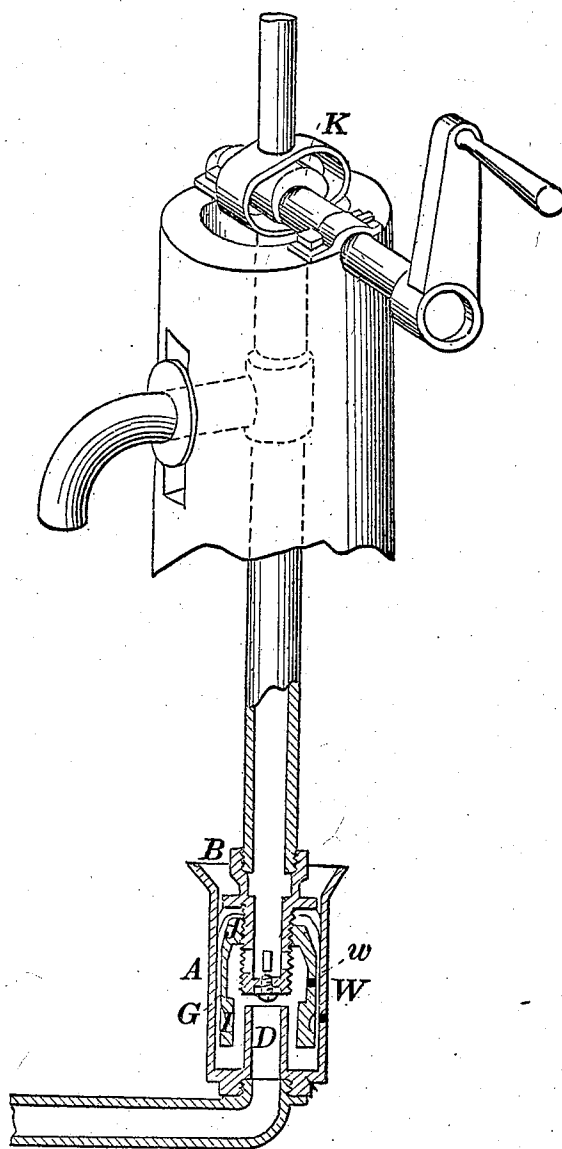


No. 38,694.

J. G. MURDOCK.
HYDRANT.

PATENTED MAY 26, 1863.



TAKEN FROM PATENT OFFICE REPORT
1863 VOL. II.
ONLY DRAWING ACCESSIBLE (1911)

UNITED STATES PATENT OFFICE.

JOHN G. MURDOCK, OF CINCINNATI, OHIO.

IMPROVEMENT IN HYDRANTS.

Specification forming part of Letters Patent No. 38,694, dated May 26, 1863.

To all whom it may concern:

Be it known that I, JOHN G. MURDOCK, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Hydrants, of which the following is a full, clear, and exact description, reference being had to the annexed drawing, making part of this specification.

The subject of my invention is a convenient and effective form of wasting hydrant, having a moving water-way which shuts against the pressure.

In the accompanying drawing the upper and lower portions of my hydrant are represented, respectively, by a perspective view and a vertical section.

A is the chamber or barrel terminating in an open flaring top or rim, B.

W is a waste aperture through the side of the barrel.

C is the supply-pipe, terminating in the nozzle D, which rises into the interior of the barrel.

E is a pipe, which performs the double function of piston-rod and water-way, perforated at F, near its lower end, for the ascent of the water into and through it, and furnished at bottom with a leather valve, G. The pipe E is also provided with a piston-head, H, in the form of an inverted cup, and having leather gaskets I J.

w is a waste-aperture in the head H, which aperture, when the piston is depressed, communicates with the aperture W in the side of the barrel.

The described hollow piston E H constitutes my moving water-way, and is operated by means of a cam or eccentric, K, upon the handle L. A slot, M, in the stock N, permits the slight play of the spout O incident to the operation of the hydrant.

Operation: The hydrant is opened by raising the handle to the position represented, so as to lift the valve G off of the seat formed by the ventage of nozzle D, and to allow the water to rush into the moving water-way E H, as indicated by the arrows. The instant that the water-way is lifted the lower gasket, I, covers and closes the waste-aperture W, while the upper gasket, J, serves to prevent any escape of water from the aperture w while the hydrant is open. The act of closing the hydrant, exposing the ventage W, allows the contents of the hydrant to escape. The spout and handle being unshipped the water-way or piston may be readily withdrawn for inspection or repair.

I claim herein as new and of my invention—

The wasting open-mouthed barrel A B W, nozzle D, valve G, gaskets I J, and ventages w w, when combined in the manner described with a moving water-way shutting against the pressure, all as herein described and for the purposes set forth.

In testimony of which invention I hereunto set my hand.

JOHN G. MURDOCK.

Witnesses:

GEO. H. KNIGHT,
A. S. LUDLOW.