G. W. Robertson,

Hydrant.

No. 26,931. Patented Jan. 24, 1860

Fig. 1.

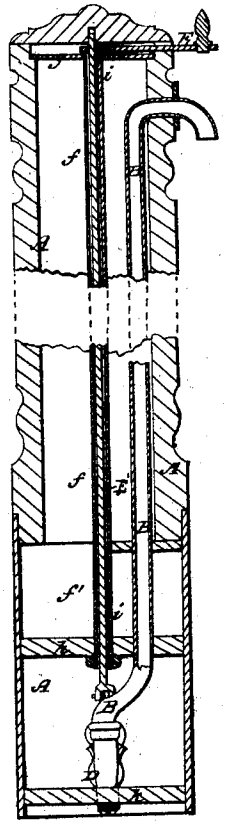
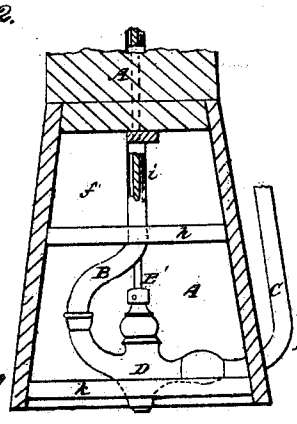


Fig. 2.



Witnesses.

Benj. Morison

John P. Robertson

Inventor.

George W. Robertson.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE W. ROBERTSON, OF PHILADELPHIA, PENNSYLVANIA.

HYDRANT.

Specification of Letters Patent No. 26,931, dated January 24, 1860.

To all whom it may concern:

Be it known that I, GEORGE W. ROBERTSON, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Hydrants and Pave-Washers; and I do hereby declare that the following is full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, represents a vertical longitudinal section of a yard hydrant with the improvement applied thereto; and Fig. 2, a front view of the lower, or ground, part of the same—the face-board being removed, in order to show the interior.

Like letters indicate the same objects when on both figures.

The nature of my invention consists in the peculiar combination and arrangement of parts, as hereinafter described.

In the drawings annexed, A, represents the stock or case of a yard hydrant; B, the outlet pipe and spout; C, the supply pipe; D, the waste-cock; and E and E′ the usual handle, and rod, for operating the cock.

The stock or case (A) is made with a larger bore, *f*, than heretofore, and the upper end of this bore is covered by a flat plate, *g*, fitted tightly over it, and perforated in its center. The lower, or box, part of the case (A) has also a partition, *h*, fitted horizontally across it, which is also perforated in its center. A pipe, *i*, is closely fastened, at its ends, in the center holes of the partition (*h*) and plate (*g*), so as to form a case for the rod (E′) which passes through it, connects with the plug of the cock (D) and is operated by means of the handle (E) in the usual manner.

The outlet pipe (B) projects through the front of the case, to form the spout, of a hydrant, as heretofore, and extending through the partition (*h*) and, by a double bend, clears the rod (E′), as shown in the drawings, and connects with the cock (D), which latter is held firmly in place by means of the perforated bottom piece, *k*, and the supply pipe (C), in the usual manner.

The bore (*f*), and the space (*f′*) immediately above the partition (*h*), form, together, a roomy chamber which is to be filled with ground charcoal, (or any other porous, light material adapted to prevent currents of air from passing through the chamber) and the face board, *a′*, screwed on, when a non conducting chamber (*f*, *f′*,) which will effectually prevent freezing, in winter weather, of the return water in the pipe (B), is produced and also convenient access afforded to that part of the case and its contents, which is below the partition (*h*) without digging around, or raising the hydrant, or disturbing the nonconducting chamber, and its contents above, by simply digging straight down in front and removing the adjustable face board (*a′*).

The described arrangement of the different parts of this hydrant is more simple and inexpensive than that of any other non-freezing hydrant, or pave washer in use; and, besides its being entirely efficient for preventing the freezing of the return water, its affording more convenient access to the cock-chamber as arranged below it, is a feature of importance which is desirable in all hydrants and pave-washers which require to be partly under ground.

Having thus fully described my improvement in hydrants and pave-washers, and pointed out its utility; I wish it to be distinctly understood that I do not claim, broadly, the application of a non freezing chamber to hydrants or pave washers; but

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

Dividing the space contained between the casing of the hydrant and the water pipes, into two chambers by means of the partition *h*, the upper chamber terminating in a plate *g*, and filled with a non-conducting material and the capacity of said chamber being increased by means of the enlarged bore *f*, and space *f′*, while the lower chamber formed between the partition *h*, and the bottom board *k*, contains no non-conducting material, but is fitted with an adjustable face-board *a′;* the whole being constructed in the manner and for the purposes set forth.

GEORGE W. ROBERTSON.

Witnesses:

BENJ. MORISON,

JNO. P. ROBERTSON.