

E. A. BENSON.
Hydrant.

No. 215,084.

Patented May 6, 1879.

Fig. 1

Fig. 2

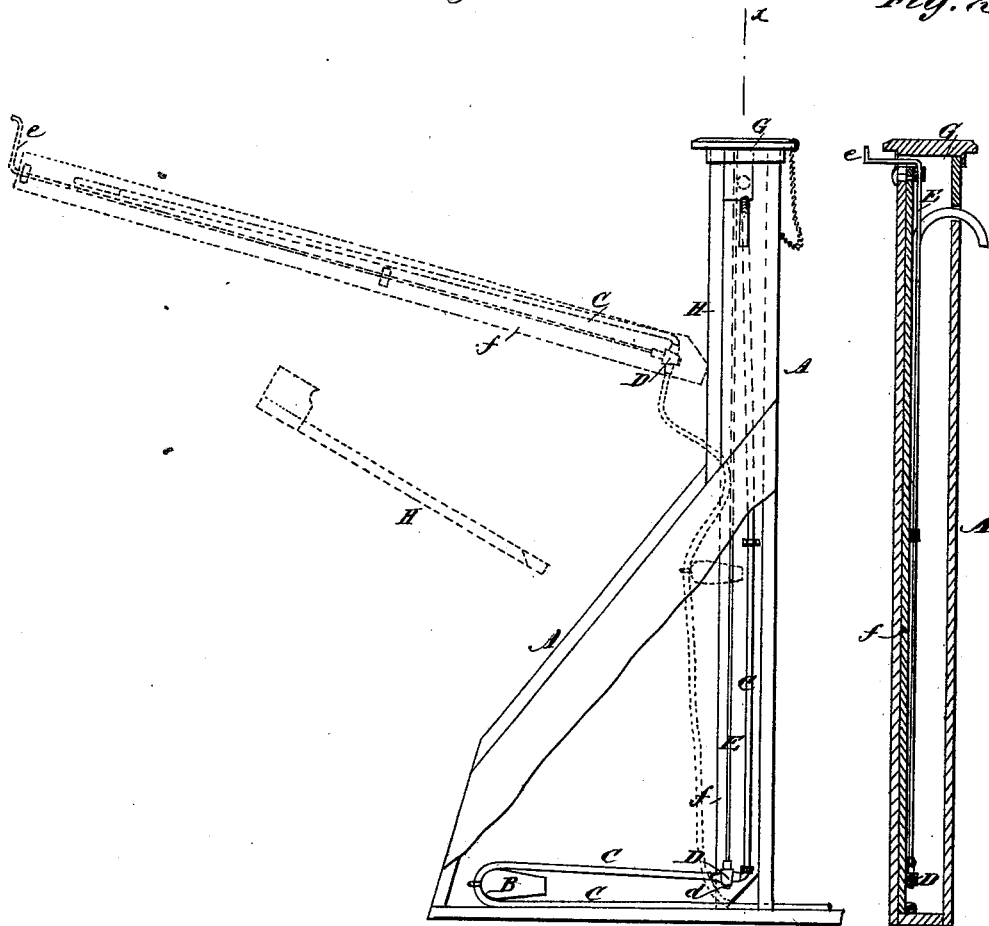


Fig. 3

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UNITED STATES PATENT OFFICE.

EDWIN A. BENSON, OF DETROIT, MICHIGAN, ASSIGNOR TO HIMSELF AND
DANIEL W. ROSE, OF SAME PLACE.

IMPROVEMENT IN HYDRANTS.

Specification forming part of Letters Patent No. **215,084**, dated May 6, 1879; application filed
March 3, 1879.

To all whom it may concern:

Be it known that I, EDWIN A. BENSON, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Hydrants, of which the following is a specification.

The object of this invention is to provide for removing, replacing, repairing, renewing, or otherwise manipulating the ground faucet or valve of a hydrant without the necessity for removing or digging around the box or casing which contains the same and the water-pipe.

To this end the invention consists, essentially, in a novel construction and form of the box or casing, and a novel arrangement of the water-pipe in connection therewith, whereby the faucet or valve is readily brought within convenient reach and other advantages are obtained, as hereinafter particularly set forth.

In the accompanying drawings, Figure 1 represents a side view of a hydrant constructed according to my invention. Fig. 2 is a vertical section taken in the line *xx* of Fig. 1. Fig. 3 is a top view.

Similar letters of reference indicate corresponding parts.

The box or casing *A* may be made of wood or any other suitable material. The portion above the ground may be either square or cylindrical and of uniform size throughout. The portion below the ground is enlarged, for the purpose of preventing its upheaval or displacement by the action of frost. As shown herein, the lower portion is of approximate triangular shape, one side being vertical and a continuation of the upper portion, the lower side being horizontal, and the third side being diagonal. This peculiar construction provides for the accomplishment of the main object of the invention by the arrangement of the water-pipe as follows: The water-pipe *C* is secured at the junction of the vertical and horizontal sides, and is carried thence horizontally to the other lower angle, where it is bent double and carried back to near the vertical side, where it is bent at a right angle and carried vertically to the top of the box or casing, where it terminates in a bib or nozzle, *c*.

At the point where the pipe is bent double it is provided with a semi-elliptical block, *B*,

attached to it in any suitable manner, for the purpose of preventing the pipe from being broken or flattened when it is bent.

Near the point where the pipe *C* is bent at a right angle, and in the horizontal portion thereof, the valve-chamber *d* is located, and in this chamber is arranged the ground faucet or valve *D*. It is provided with a rod or stem, *E*, extending upward to the top of the box or casing, and terminating in a crank or handle, *e*. The valve-stem *E* and the vertical portion of the pipe *C* are secured by staples to a strip of wood or metal, *f*.

The top of the box or casing is provided with a removable cap or cover, *G*, fitting over it like the lid of a box.

The upper or exposed portion of the box or casing is provided with a removable side or door, *H*, the lower end of which fits in a recess in the box, and the upper end is held by the lid or cover *G*.

When access to the valve *D* is desired the cover *G* and door *H* are removed. The carrier *f* is then raised vertically until its lower end clears the enlarged portion of the casing, and is then inclined to the position shown in dotted lines. The flexibility of the pipe allows it to straighten out, as shown. The valve *D* is then brought within reach for inspection and repair or other purposes, and the parts may be readily replaced when desired.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the box or casing *A*, of the removable cover *G* and door *H*, as herein shown and described.
2. The water-pipe *C*, bent double horizontally and at a right angle vertically, as herein shown and described.
3. The combination, with the pipe *C*, of the block *B*, as shown and described, for the purpose specified.
4. The combination of the carrier *f*, pipe *C*, faucet or valve *D*, and rod or stem *E*, as herein shown and described.

EDWIN A. BENSON.

Witnesses:

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