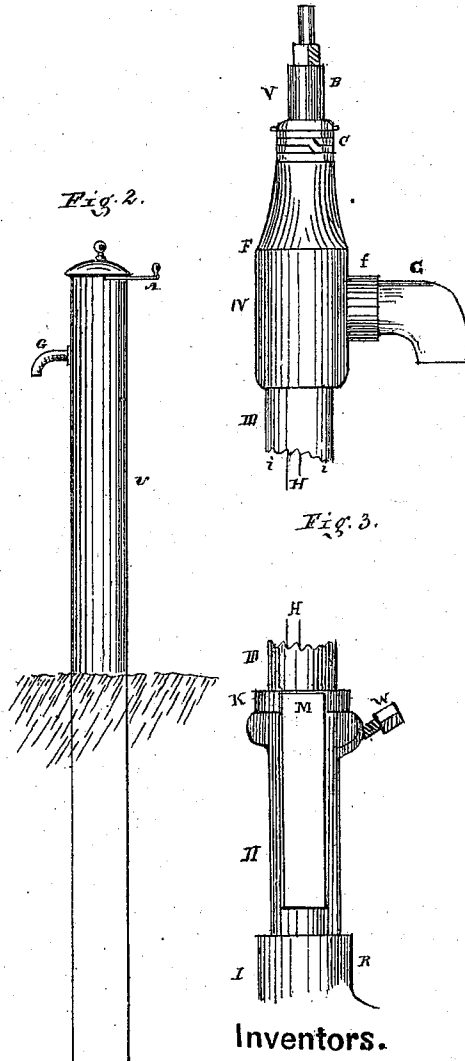
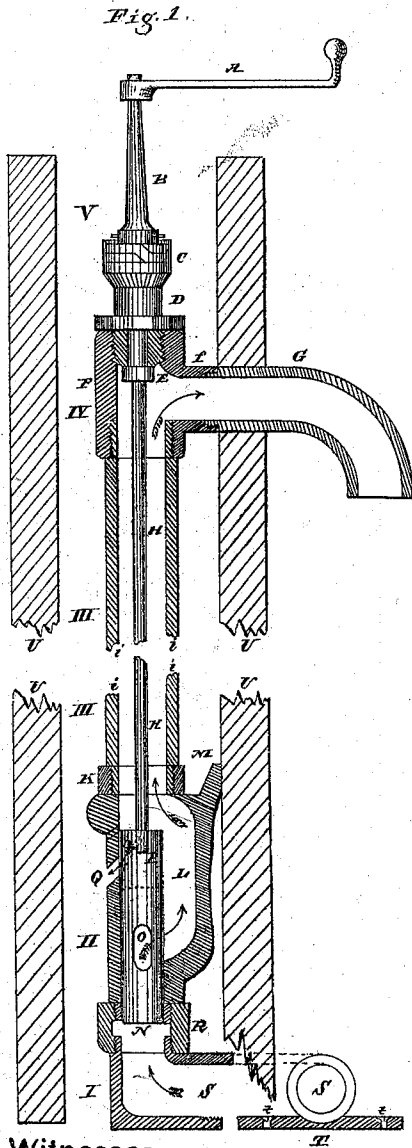


E. STOCKER & A HEUPEL.

Hydrants.

No. 131,796.

Patented Oct. 1, 1872.



Witnesses.

N. B. Wiley
Jacob Stauffer

Inventors.

Edward Stocker
Anthony Heupel

UNITED STATES PATENT OFFICE.

EDWARD STOCKER AND ANTHONY HEUPEL, OF LANCASTER, PENNSYLVANIA, ASSIGNORS OF ONE-THIRD THEIR RIGHT TO EDWARD G. HATZFELD, OF SAME PLACE.

IMPROVEMENT IN HYDRANTS.

Specification forming part of Letters Patent No. 131,796, dated October 1, 1872.

To all whom it may concern:

Be it known that we, EDWARD STOCKER and ANTHONY HEUPEL, of the city of Lancaster, in the State of Pennsylvania, have invented a new and Improved Hydrant; and we do hereby declare that the following is a full description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing making a part of this specification.

This improvement relates to a class of hydrants which may be readily unscrewed from the fixed bottom section connected with the feed-pipe for the purpose of making repairs without the necessity of digging up the case. (The case requires but a three-inch bore.) The novelty consists in the construction of the vertical stop-cock, with its side passage for the water that enters the barrel below and through the key to be returned to itself above the key, and the manner of operating by a key-rod connected within the discharge-pipe by square sockets to the top of the key and revolving shaft, which latter is connected with the turning-handle.

In the drawing, Figure 1 is a sectional view of the several parts; Fig. 2, the case, six feet in length and four inches in diameter, (outside,) to show its true proportions; and Fig. 3 is simply to show a modification in the upper section IV, and to show the set-screw W in the collar K in section II.

No special box is required—a simple block, to which the lower section I S is affixed by its base T, and receives the feed-pipe. The upper end of this section has a screw-socket, R, for the reception of the vertical barrel or stop-cock M, section II, in which is the key or valve N, with its side opening O from the interior of the open center. There is also a side opening and water-channel, L, opening above the key into the head K M of section II of the stop-cock. This side channel is also externally produced into a flange, M, for the application of a forked wrench, by which it can be unscrewed and detached with the water or discharge pipe *i*, section III, from the fixed base section I. There is also an enlargement below the collar K, with a set-screw, W. Section V consists of a shaft, B, to which the

turning-handle A is attached. This shaft passes through and turns within a shouldered sleeve, D, and a spring, *c*, between said shoulder and a shoulder on the shaft to keep the joint water-tight. This sleeve screws into section IV, composing the discharge-nozzle G to convey the water outside the case U. The shaft B has a shoulder, E, below the screw end of the sleeve D, in which there is a square socket for the upper end of the key-rod H, the lower end of which fits into a square socket in the top of the key N.

The operation is simple: By turning the handle A the key is turned so that the opening O comes opposite the opening of the side channel L, which admits the water from the feed-pipe into the discharge-pipe in the ordinary way; and by turning the handle back again the inlet will be closed and the water stopped off. To prevent freezing an escape for the water is made at any convenient point for a waste-pipe or opening, Q, Fig. 1.

We are aware that there are numerous devices patented with the same object in view; but we are not aware that the same arrangement is claimed or shown substantially as herein figured and described. We believe that its cheapness and efficacy and simplicity, as a whole, make it a valuable improvement in hydrants.

What we claim as our improvement, and desire to secure by Letters Patent, is—

The vertical barrel K or stop-cock, when provided with a side channel, L, forming an external prolonged keel, and wrench-flange M, with a set-screw, W, in the enlarged collar K, and provided with an open key, N, so as to allow the water to enter the barrel through the key below and pass over the key into the barrel and discharge-pipe *i*, together with the key-rod H, when within the pipe *i*, and held in sockets in the key and turning shaft B within its sleeve D, the whole combined, as shown by sections I, II, III, IV, and V, for the purpose specified.

EDWARD STOCKER.
ANTHONY HEUPEL.

Witnesses:

WM. B. WILEY,
JACOB STAUFFER.