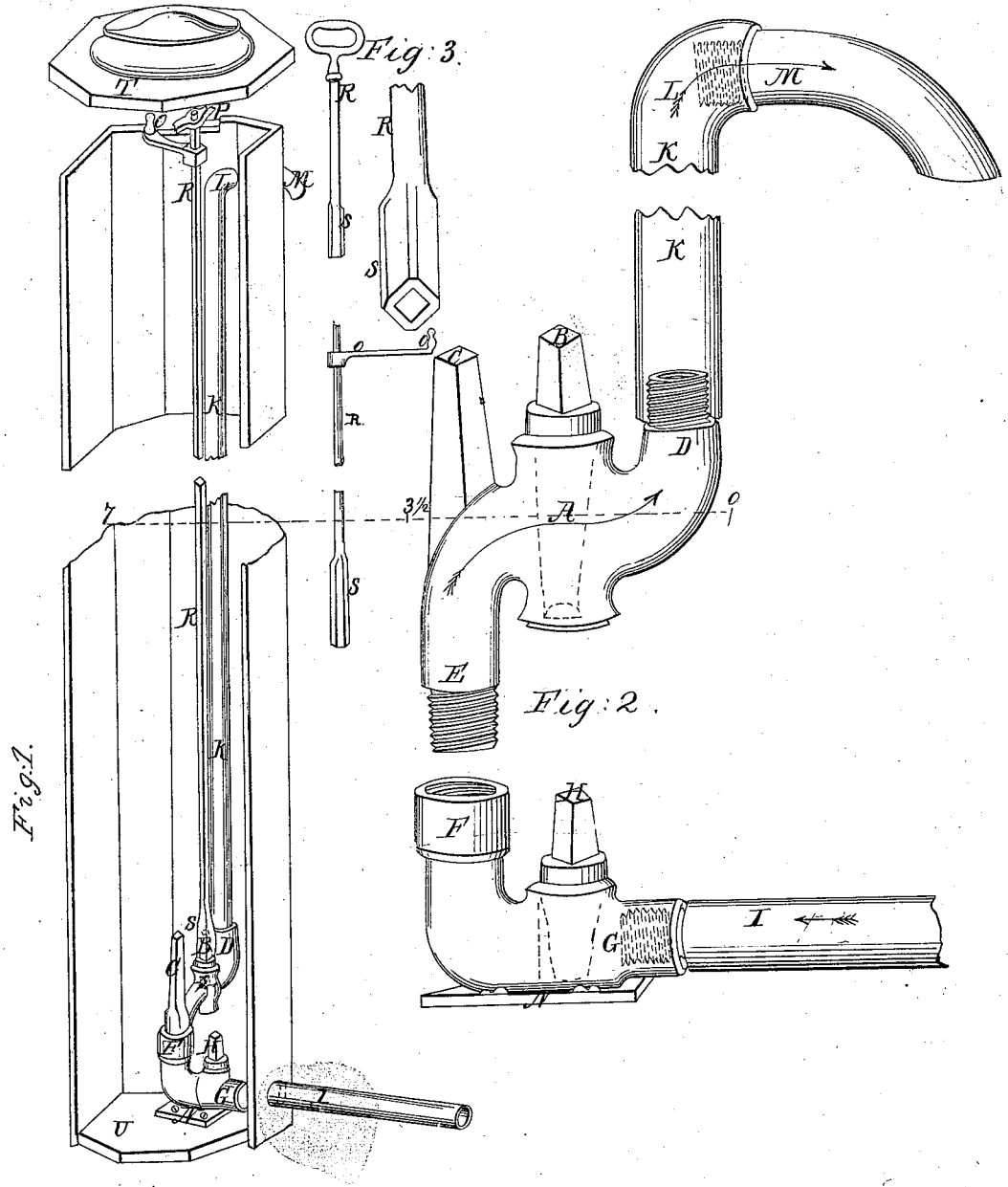
E. Stocker,

Hydrant,

No. 52,797. Patented Feb. 20, 1866.



Witnesses;
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UNITED STATES PATENT OFFICE.

EDWARD STOCKER, OF LANCASTER, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND EMANUEL SHOBER, OF SAME PLACE.

IMPROVEMENT IN HYDRANTS.

Specification forming part of Letters Patent No. **52,797**, dated February 20, 1866.

To all whom it may concern:

Be it known that I, EDWARD STOCKER, of Lancaster, in the county of Lancaster and State of Pennsylvania, have invented a new and Improved Mode of Constructing Stop-Cocks for Hydrants; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 shows the casing of the hydrant, portions being removed to exhibit the cock, pipe, rod, &c., in the interior, T the top, U the bottom, of the case; Fig. 2, the stop-cock and pipes, drawn to the full size for an ordinary hydrant, detached in part; Fig. 3, an extra key.

The nature of my invention consists in providing a stop-cock so constructed that it can be taken out, repaired, and replaced without the disagreeable labor, when the ordinary cocks now in use are employed, of digging up the stock or casing, which digging up, being a dirty and expensive job, often injures the stock and pavements, in addition to the time and labor.

To accomplish this object I make my cock in two parts. Fig. 2 so clearly shows these parts as to enable any one skilled in the business to make the same.

The curved cylinder A is provided with screw ends E D, the key of the stop-cock being vertical, (shown by the dotted lines at A,) the square top B for the ordinary rod, and key R S for turning the water off or through the discharge-pipe K and external spout M. The square cone C, being of equal height to that of the conic key-top B, is in like manner adapted to the turning-key R S, and by it operated and screwed onto or off from the lower portion, F G, which latter is fixed by a plate, N, to the bottom of the hydrant. The end G has a female screw, into which the supply-pipe I is screwed. There is also a key, H, (shown on this lower portion,) for the purpose of shutting off the supply of water in the hydrant instead at some other remote point, often very inconvenient to do.

The extra key, Fig. 3, is for the purpose of fitting upon the top of the key-rod R S in place of the lever-key O, Fig. 1, to lengthen the same for operating the long rod for unscrewing or shutting off the water below.

The discharge-pipe K has a short curved neck, provided with a screw-thread at its upper end, into which the vertical pipe K enters, as also the nozzle or spout M, from the outside of the case. This casing requires to be of such a width or clear space as to allow the upper portion of the cock to revolve freely on the screw end E, being, say, three and one-half inches, requiring an area of seven and one-half inches diameter to turn in.

To remove the cock from the hydrant it is only necessary to unscrew the spout M and shift the rod and key from B to C, and turning the same will unscrew the cock and pipe A K. It is understood that the pipe may be made to incline inward, so that the external end of the curve L will be in a perpendicular line with the outside of the curve at D, in order to revolve with the stop-cock while unscrewing, when the minimum diameter of the case is desired. Thus repairs are readily made and many advantages derived by this device.

The novelty consists in the arrangement of the parts and peculiar construction of the several conic key-points B H and turning-point C, in their combination, for the object stated. Otherwise the keys are of the ordinary fashion, provided with a waste-opening, in the usual manner, in the cylinder.

The attachments of the discharge or supply pipe are not material to my invention, and may be in the manner shown or otherwise, so as not to prevent the object in view—that is, the upper pipe, K, may be continuous, with a short curved neck, L, in one piece, or the short neck L, an independent screw-socket both for the vertical pipe K and spout M.

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

The stop-cock A, with its curved screw ends E D and conic turn-points C B, in combination with the fixed base F G N, with or without the stop-off key H, all arranged and operating substantially in the manner and for the purpose specified.

EDWARD STOCKER.

Witnesses:

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