

M. BURNETT.
Stop-Cock.

No. 197,994.

Patented Dec. 11, 1877

Fig. 1.

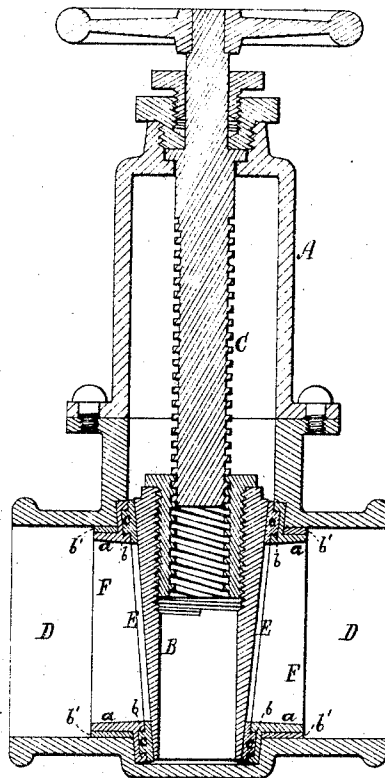


Fig. 3.

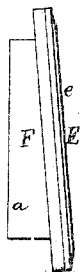


Fig. 2.

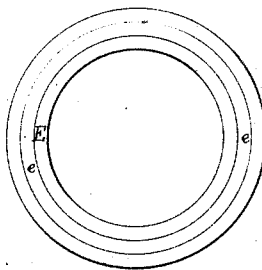
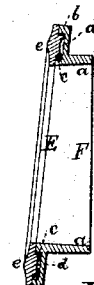


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

MARSHALL BURNETT, OF HYDE PARK, MASSACHUSETTS.

IMPROVEMENT IN STOP-COCKS.

Specification forming part of Letters Patent No. 197,994, dated December 11, 1877; application filed November 20, 1877.

To all whom it may concern:

Be it known that I, MARSHALL BURNETT, of Hyde Park, of the county of Norfolk and State of Massachusetts, have invented a new and useful Improvement in Stop-Cocks for Hydraulic or Gas Pipes; and do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a vertical and longitudinal section of a stop-cock provided with my invention. Fig. 2 is a front view, Fig. 3 a side view, and Fig. 4 a transverse section, of the valve-seat facing and its holder, as they are made before being fastened together.

In such drawings, A denotes the box or case, B the valve, and C the operative screw, of the said valve, such case being provided with educts D D, leading from it in manner as represented. The valve is a circular block of metal, tapering or wedge-shaped in transverse section, as shown.

In carrying out my invention I combine with the valve and its case, and each of the educts, a valve-seat metallic facing, E, and a tubular and flanged holder, F, therefor. The said holder has its shank *a* inserted in the mouth of the educt, and held therein by means of lead *b'*, cast and driven in between it and the surrounding inner surface of the educt.

This holder has a circular dovetailed groove, *b*, made in its flange, to receive a corresponding dovetailed tongue, *c*, extending from the brass or metallic facing E. The said tongue is concave transversely, as shown at *d*, and the facing is made convex on its outer surface, as shown at *e*. After having inserted the dovetailed tongue within the dovetailed groove, (such tongue being made so as to be capable of being inserted in such groove,) the face-

plate is to be hammered down, so as to spread the tongue tightly within the groove, and thereby confine the facing to the holder. The facing should next be turned or made flat on its outer surface, to fit the side of the valve.

In applying the holders to the valve-case they, with the facings attached to them, as described, are to be inserted in place in the educts; after which the valve should be forced down to its lowest position in the case. Next, the case should be turned up, so as to cause a facing to rest or bear equally on the valve; after which the lead fastening should be applied, as above explained, to the shank of the holder.

The other holder and facing may be similarly adjusted and fixed in place.

In such manner I provide each educt of the valve-case with a valve seat or a facing and its holder, such enabling me to make the case without any vertical division or joint.

I claim as my invention as follows:

1. The combination of the metallic valve-seat facing E and its tubular holder F, substantially as described, with the stop-cock case, valve, and educt, all being arranged as set forth.

2. The holder F, provided with the dovetailed annular groove *b*, in combination with the ring or facing E, having the convexity *e*, the dovetailed tongue *c*, and the concavity *d* thereto, all as set forth.

3. The facing having the dovetailed tongue, the concavity *d* and convexity *e*, arranged with it, as described, and for fixation of such facing to its holder, as set forth.

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Witnesses:

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