G. D. BLOCHER.

Adjustable-Hydrant.

No. 161,740. Patented April 6, 1875.

Fig. 1

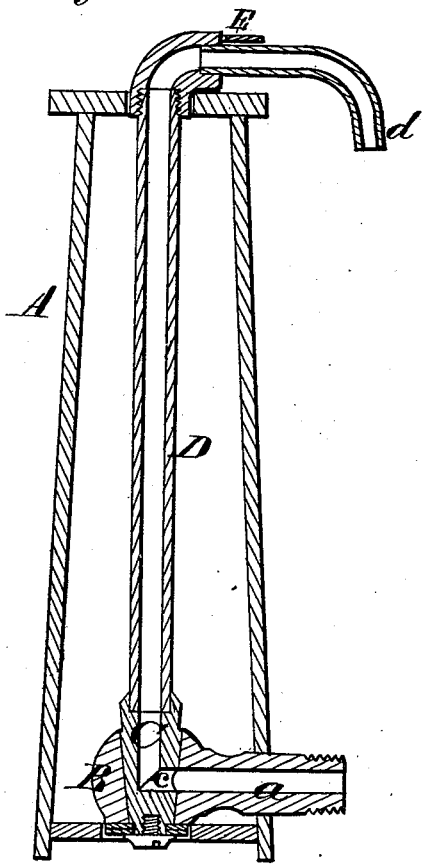



Fig. 6.

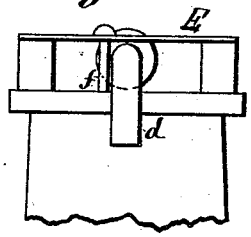



Fig. 3

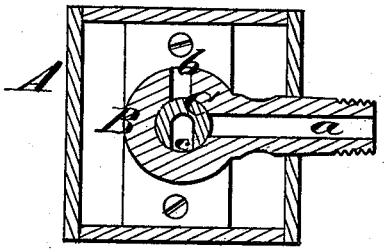



Fig. 4

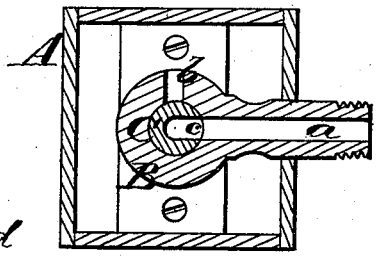



Fig. 2

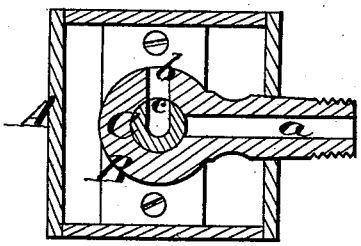
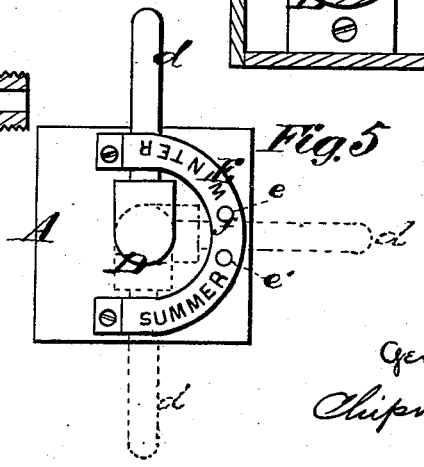



Fig. 5




WITNESSES

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# UNITED STATES PATENT OFFICE.

GEORGE D. BLOCHER, OF MARTINSBURG, WEST VIRGINIA.

## IMPROVEMENT IN ADJUSTABLE HYDRANTS.

Specification forming part of Letters Patent No. **161,740**, dated April 6, 1875; application filed February 13, 1875.

*To all whom it may concern:*

Be it known that I, GEORGE D. BLOCHER, of Martinsburg, in the county of Berkeley and State of West Virginia, have invented a new and valuable Improvement in Adjustable Hydrant; and I do hereby declare that the following is a 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, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a longitudinal vertical section of my hydrant. Figs. 2, 3, and 4 are horizontal sectional views of the same; and Figs. 5 and 6 are detail views.

This invention relates to hydrants; and my object is to provide a waste-passage for allowing water to escape from one side of the cock when the flow from the nozzle of the discharge-pipe is cut off, thus preventing the formation of ice in said pipe during the winter months.

In the annexed drawings, A designates the case of the hydrant, on the base or floor of which the body B of the cock is rigidly secured. This portion B is constructed with a tubular neck, *a*, to which the service-pipe is suitably secured; and at right angles to this neck *a* a waste-passage, *b*, is made through the body B. C designates the tubular cock-plug, having a hole, *c*, through one side, which can be made to register with the neck *a*, or with the passage *b*, by turning the plug C. D designates the discharge-pipe, which rises from the plug C, and passes through the top of the case A, and has a discharge-nozzle, *d*, on its upper end. E designates a semicircular bridge, which keeps the plug C in its seat, and on which may be printed the words "Winter" and "Summer," for the purpose of showing which way to turn the cock-plug when it is desired to allow water to escape from pipe D through the waste-passage *b*. Two holes, *e e'*, are made through the bridge E, on opposite sides of the center thereof, through one or the other of which a pin, *f*, is passed, against which the nozzle *d* abuts when it is in a position for drawing water, and the hole *c* in plug C registers with the neck *a*, as shown in Figs. 1 and 4.

During the summer months, when the waste-passage is not brought into play, the check-pin *f* is inserted into the hole *e;* but when there is danger of water freezing in the discharge-pipe D the pin *f* is adjusted in the hole *e'*, and the hole *c* in the cock-plug can be made to register with the waste-passage for allowing water to escape from the discharge-pipe through said passage.

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

In a hydrant having a waste-passage, *b*, a tubular plug, C, discharge-pipe D, and nozzle *d*, the bridge E, perforated at *e e'*, and removable pin *f*, all combined in the manner described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEO. D. BLOCHER.

Witnesses:

GEORGE E. UPHAM,

DONN TWITCHELL.