

D. A. ROBINSON.

Improvement in Air-Cushion Stop-Cocks.

No. 130,243.

Patented Aug. 6, 1872.

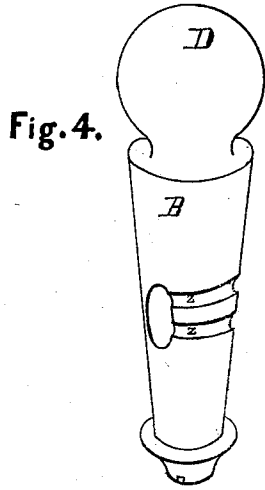


Fig. 1.

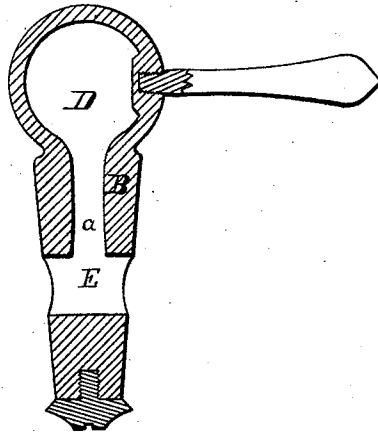


Fig. 2.

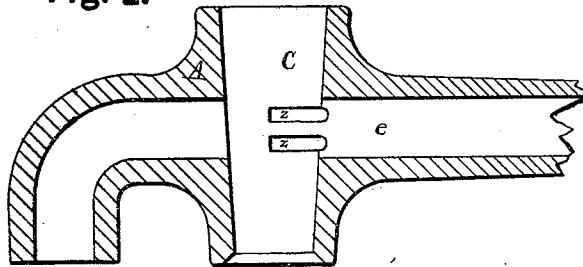
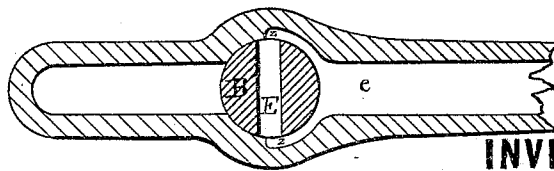


Fig. 3.



WITNESSES.

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UNITED STATES PATENT OFFICE.

DANIEL A. ROBINSON, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN AIR-CUSHION STOP-COCKS.

Specification forming part of Letters Patent No. 130,243, dated August 6, 1872.

To all whom it may concern:

Be it known that I, DANIEL A. ROBINSON, of Washington, in the county of Washington and District of Columbia, have invented a new and valuable Improvement in Stop-Cocks; 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 drawing 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 vertical section of my invention. Fig. 2 is a vertical section of my invention. Fig. 3 is a horizontal section of my invention. Fig. 4 is a perspective view of my invention.

This invention has relation to stop-cocks; and it consists in providing the plug with an air-chamber which shall communicate with the water-pipe when the water is turned off, whereby it is designed to prevent the violent shock of the reaction of the head within the pipes.

In the accompanying drawing, the letter A designates a stop-cock. B indicates the plug or valve, which fits within the seat C in the usual manner. D is an air-chamber formed in or connected with the plug, and arranged to communicate, through a suitable passage, *a*, with its port E, which also communicates with

the main channel *e* of the faucet in rear of the plug by a passage or passages, *z*, which may be formed in the wall of the seat C or in the plug itself.

Usually it is proposed to arrange the passage *z* so that communication with the port E will be cut off when the water is turned on. When the water is turned off the air-cushion within the chamber D will be brought into communication with the head of water, preventing the violent concussion within the pipes and obviating all sound.

The air-chamber may very conveniently be made within the handle, which is secured to the turning-plug.

What I claim as new is—

1. The turning-plug B, having an air-chamber communicating with its port E, substantially as specified.

2. In combination with the subject-matter of the above claim, I claim the channel *z* or its equivalent, for the purpose set forth.

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

DANIEL A. ROBINSON.

Witnesses:

GEO. UPHAM,
D. D. KANE.