

J. STOWELL.
SAFETY COCK.

No. 67,460.

Patented Aug. 6, 1867.

Fig. 1

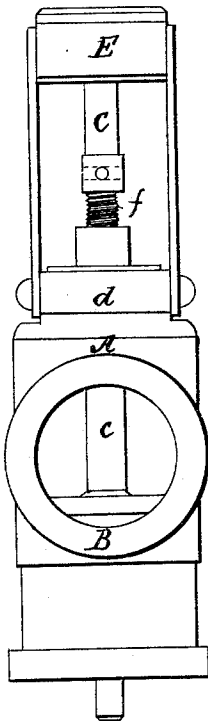
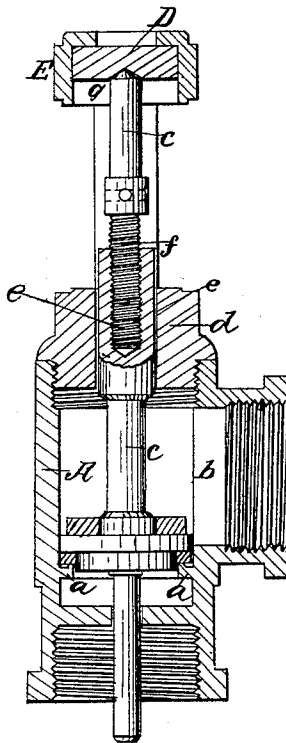


Fig. 2



Witnesses:

J. M. Andrews
Samuel T. Piper.

Inventor:

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by his attorney
R. H. Eddy

United States Patent Office.

JOHN STOWELL, OF CHARLESTOWN, MASSACHUSETTS.

Letters Patent No. 67,460, dated August 6, 1867

IMPROVEMENT IN SAFETY-COCKS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL PERSONS TO WHOM THESE PRESENTS SHALL COME:

Be it known that I, JOHN STOWELL, of Charlestown, in the county of Middlesex, and State of Massachusetts, have invented a new and useful Safety-Cock; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a front elevation, and

Figure 2 a vertical section of it.

My invention is designed to be applied to a water conduit, constituting a part of an apparatus for discharging water into a building or an apartment for the purpose of extinguishing a fire when occurring therein. It may also be applied to advantage on a gas conduit or pipe, and for closing the same in case of conflagration taking place in the building containing such pipe.

In the drawings, A denotes the body of the cock, it being tubular or hollow, and containing a valve-seat, *a*, and a valve, B, arranged as represented. A branch pipe or eduction passage, *b*, leads laterally out of the body. The valve-stem *c* slides freely in the upper end, or part *d*, of the body A, and has a female screw, *e*, formed on its upper end, and to receive a corresponding male screw, *f*, of an auxiliary stem, C. The upper end of the said stem C rests against the lower surface of a plug, D, of fusible metal, (that is, a metal that melts at a very low temperature,) held within a socket, *g*, formed in a yoke or open standard, E, erected on the body A, as represented.

By means of the auxiliary stem C acting against the plug the valve may be forced closely down upon its seat, so as to shut off the flowage of any water through the cock when the latter is in use. In case of a fire taking place in the building containing the cock, and the fusible metal being melted by the heat of such fire, the valve will be set free, so as to be forced off its seat by the pressure of the water in the conduit, and this water will be suffered to flow through the cock, and may be discharged on the fire for the purpose of extinguishing it.

The fusible plug and the auxiliary stem and its screw, or their equivalent, may be employed for keeping a valve elevated off its seat in case of the application of the cock containing such valve to a gas conduit, the same being in order that, when the fusible plug may be melted by the heat of a fire, the valve may be caused to fall by gravity or a spring and close the cock, so that the egress of gas from the conduit may be arrested.

I make no claim to the employment of a fusible plug as ordinarily used with a steam-boiler, and for the purpose of indicating when the water thereof may be too low therein, but I claim the safety-cock made substantially as described, viz, of the body A, the valve and its seat, the fusible plug, the auxiliary stem and its screws, or the equivalents thereof, the whole being as and for the purpose specified.

JOHN STOWELL.

Witnesses:

R. H. EDDY,

F. P. HALE, Jr.