

J. H. Jennings & Co.

Gas Check.

No. 100,634.

Patented Mar. 8. 1870.

Fig. 1.

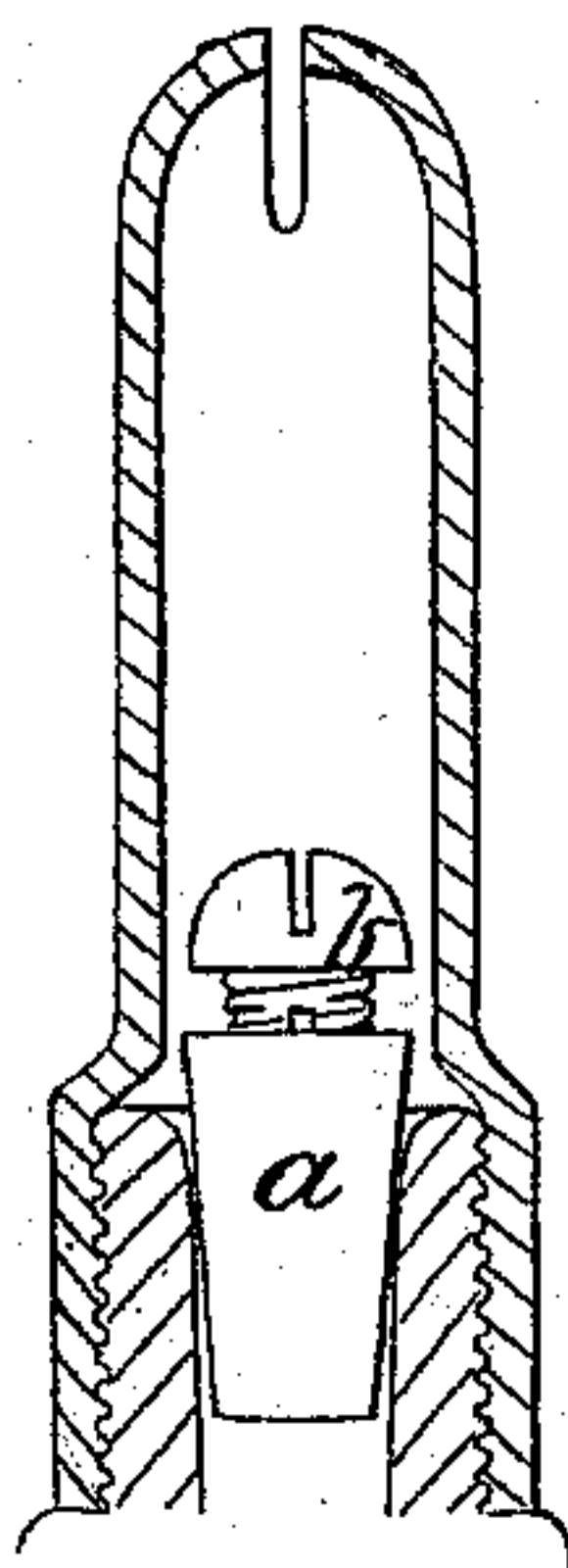


Fig. 2.



Fig. 3.

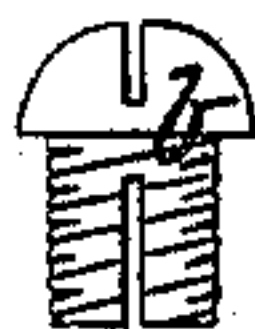


Fig. 4.



Fig. 5.



Witnesses.

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United States Patent Office.

JOHN H. JENNINGS, OF NEW BEDFORD, MASSACHUSETTS.

Letters Patent No. 100,634, dated March 8, 1870.

IMPROVEMENT IN CHECKS FOR GAS-BURNERS.

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

To all whom it may concern:

Be it known that I, JOHN HENRY JENNINGS, of New Bedford, in the county of Bristol, and State of Massachusetts, have invented a new and valuable Improvement in Gas-Checks; 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 drawings is a representation of my invention applied to the gas-pipe within the burner.

Figure 2 is a bottom view of the cleft screw.

Figure 3 is a side view of the same.

Figure 4 is a perspective view of the conical tube.

Figure 5 is a central vertical section of my invention.

My invention relates to means for regulating the flow of gas to the burner, and consists, mainly, in the construction and novel arrangement of an adjustable check, whereby the same sized flame may be preserved, although the pressure of the gas may vary.

The letter *a* of the drawings designates a tapering tube, the larger end of which is arranged to receive the slit screw *b*. The shank of the screw is divided throughout nearly its entire length by making saw-cuts in different directions through its axis. It is apparent that when the screw is introduced into the tube *a* all the gas which passes through the tube must

pass out of it through the upper ends of the saw-cuts. Hence, by regulating the length of these openings, the flow of gas may be completely controlled. By turning the screw down to its lowest limit the flow will be entirely stopped.

The tapering tube *a* and slit screw *b* constitute my gas-check, and it is thus applied:

The burner having been removed, the tube *a* is dropped into the opening of the fixture thus exposed.

Its tapering conical form will cause it to fit the opening, so that all the gas which is burned must pass through it. The burner is now replaced. If the flame is found to be too large the screw *b* is depressed a little. A reverse movement of the screw will expand the flame. After a few trials the flame will be regulated to the required size, at which point it will remain, no matter what may be the variation of the pressure of gas.

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

The gas-check herein described, consisting of the conical tube *a* and slit screw *b*, as specified.

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

J. HENRY JENNINGS.

Witnesses:

LEML. T. WILLCOX,
WM. S. COBB.