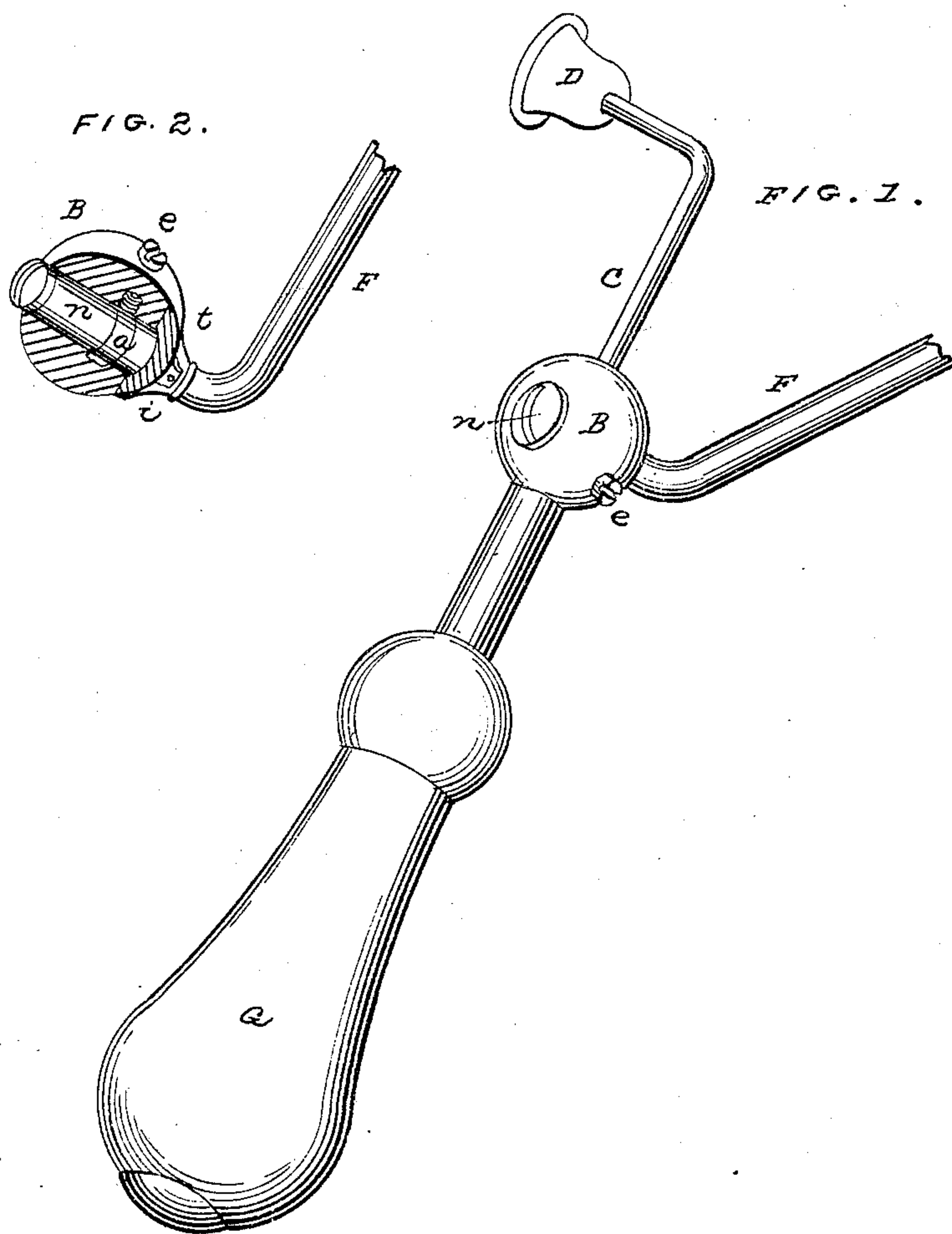


E. P. GLEASON.
Cigar Lighter.

No. 59,587.

Patented Nov. 13, 1866.



WITNESSES:

Wm A McKenney
Jm Kenney

INVENTOR,

Elliott P. Gleason
by his Atty
James A. Brounll.

UNITED STATES PATENT OFFICE.

ELLIOTT P. GLEASON, OF NEW YORK, N. Y.

IMPROVEMENT IN CIGAR-LIGHTERS.

Specification forming part of Letters Patent No. 59,587, dated November 13, 1866.

To all whom it may concern:

Be it known that I, ELLIOTT P. GLEASON, of the city, county, and State of New York, have invented a new and useful Improvement in Self-Adjusting Gas-Cocks for Cigar-Lighters, (so called,) and for other purposes; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of a cigar-lighter with my improved cock. Fig. 2 is a perspective view of the said cock, with a section of the globe removed to show clearly the improvement in the construction.

Similar letters refer to like parts in both figures.

The cigar-lighter, Fig. 1, is an apparatus for readily lighting cigars in places frequented by smokers. It has a piece of flexible tube attached to the pipe F, by which it hangs pendent from a gas-fixture above. The gas passes through the pipe F to the cock B, and thence through the tube C to the cup or lighter D, where it is inflamed. The smoker takes the apparatus by the handle G, and places the cup to the end of the cigar and lights it, in the usual way. The weight of the handle as the lighter hangs suspended partially closes the cock B and decreases the flame in the cup D, and when the handle is lifted in the act of lighting the cigar the cock is turned open sufficiently to increase the flame and make it shoot out of the cup upon the end of the cigar and light it, the turning of the cock in this way being limited by a peg, *i*, in the plug of the cock and a space cut in the globe, in which it moves, as shown in Fig. 2.

No part of the cigar-lighter as described is claimed as new, the invention being confined to an improvement in the construction of the

cock, as hereinafter described—that is to say, the plug *n* is chambered out for about half its length, and the pipe F is screwed into the end of the plug for the admission of gas to the chamber. A small perforation, *t*, Fig. 2, is made into the chamber in the plug, from which the gas escapes, and a flat score, *a*, is turned in the plug and a similar score in the socket of the globe, to which the plug is fitted, which form together an annular passage for the gas around the plug, and a perforation is made through from the outside of the globe into the passage *a*, in which the tube C is screwed, to convey the gas from the cock to the lighting-cup D. Another perforation is made in the globe, into the passage *a* in which is inserted a screw, *e*, in such a position that the inner end of the screw will cover and uncover the perforation *t* by the turning of the plug, and thereby let the gas off and on, in the manner before described. The end of the screw is of the same breadth as the score *a*, and is to be adjusted so as to permit only the requisite quantity of gas to escape from the perforation *t* to create the desired flame in the cup. While the lighter remains suspended the end of the screw covers the perforation *t*, permitting only a sufficient escape of the gas to maintain combustion in the cup, but when the lighter is lifted to light the cigar the turning of the plug uncovers the perforation, and permits more gas to escape and to shoot in a flame from the cup D.

What I claim is—

The self-adjusting gas-cock, constructed substantially in the manner described, for the purpose specified.

ELLIOTT P. GLEASON.

Witnesses:

ISAAC A. BROWNELL,
SAMUEL W. ADAMS.