

No. 78,254.

PATENTED MAY 26, 1868.

J. W. BOUGHTON.
SIGN FOR TOBACCONISTS.

Fig. 1.

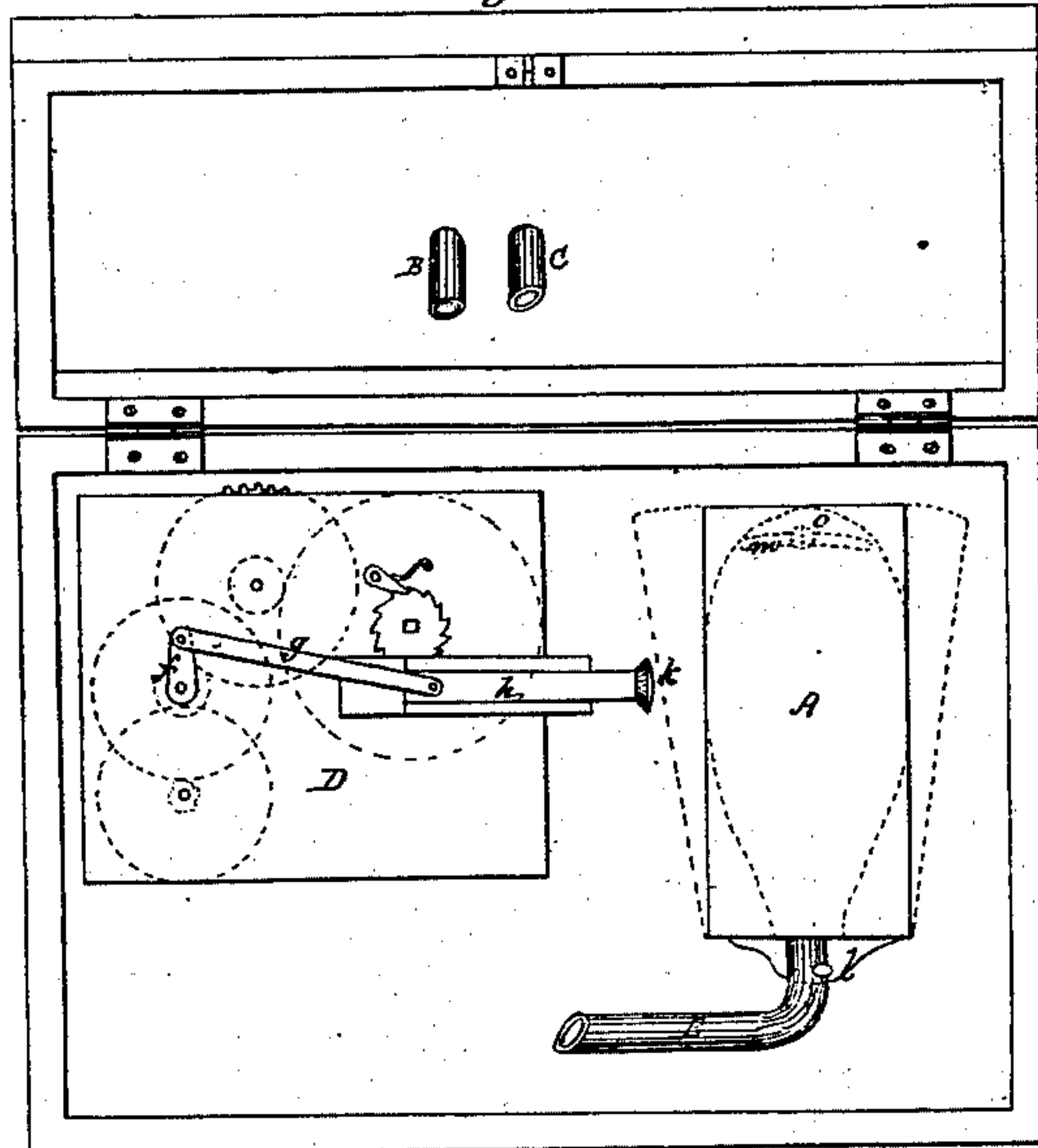
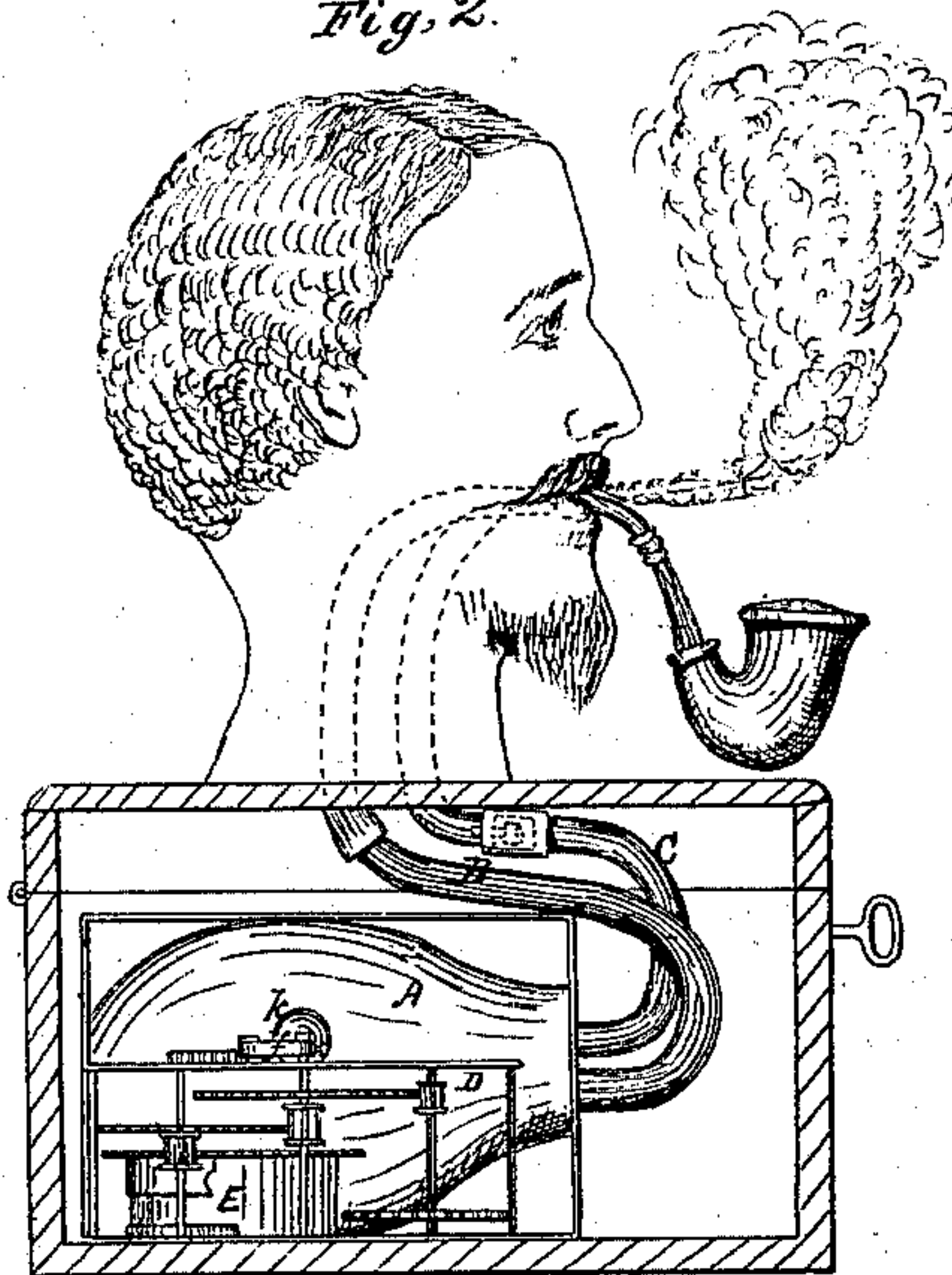


Fig. 2.



Witnesses · J. Fraser
G. M. Lawrence

John W. Boughton

United States Patent Office.

JOHN W. BOUGHTON, OF APPLETON, WISCONSIN.

Letters Patent No. 78,254, dated May 26. 1868.

SIGN FOR TOBACCONISTS.

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 W. BOUGHTON, of Appleton, in the county of Outagamie, and State of Wisconsin, have invented a new and improved Device for a Tobacconists' Sign, which I denominate the "Automatic Smoking-Image;" and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of the mechanism that I employ, and

Figure 2 an elevation with the smoking-image connected therewith.

Like letters indicate corresponding parts in both.

It is the object of my invention to produce an appropriate and attractive street sign for dealers in tobacco, cigars, &c., consisting either of the ordinary image or figure generally employed as a sign, or of any grotesque head, bust, or painted representation thereof, which, by the aid of the mechanism hereafter described, is made to perform, automatically, the operation of smoking a pipe, cigar, cigarette, or other material, producing the appearance of tobacco-smoke.

In order to produce the successive inhalations and expulsions of the smoke I employ an air-bellows, consisting, preferably, of an India-rubber bulb, A, connected with which are two tubes, B C, represented in part by dotted lines, which extend to the mouth of the image. Arranged at a suitable distance from this, I employ a mechanical movement, D, consisting, as shown in the drawing, of a train of gear-wheels, driven by a coiled spring, E, or by a weight or other means of imparting motion. To the spindle of the last wheel of the train I affix a crank-arm, *f*, with a pitman, *g*, which connects with a reciprocating bar, *h*, being provided with a head or piston, *k*, which impinges against the bulb or bellows A at each forward movement of the piston, collapsing its side so as to expel the air contained within it. The recession of the piston allows the bellows to expand and fill with air again. The tubes are provided with valves, and B being connected with the pipe or cigar, and the valve of C closing during the inspiration, the air is caused to enter by passing through the tobacco, sustaining the combustion, and carrying the smoke into the bellows. When the expiration begins, the valve in B closes, and that of C opens, causing the smoke to be expelled through the mouth or elsewhere, an orifice being provided in the lips for the purpose. This gives the succession of inhalations and puffs, or expulsions of the smoke, the length and frequency of which may be regulated by adapting the speed of the movement to that which is required.

A cigar-holder, or other means of connecting a cigar or pipe to the mouth, may be applied to the image, and so arranged that one may be substituted for the other. The smoke may be made to issue from the nostrils or ears, if desired.

I prefer to place the air-bellows in a box which is pivoted at one end, *l*, and provided with a slot, *m*, and set-screw *o*, by which it may be moved in position to subject it to greater or less thrust of the piston, thereby varying the inspirations and expirations of the volume of smoke by the greater or less expansion and contraction of the bellows.

The necessary apparatus may be contained in a small space, in a box or other suitable enclosure, and concealed from observation, yet accessible for winding up. The tubes B and C being small, may be conducted up through the legs, if the image is a full-length figure, or through the pedestal, if a bust. Thus, at a small cost, and no expense except for the tobacco consumed, an inviting sign is produced, and one so conspicuous as to attract attention at a much greater distance on the street than the ordinary statuesque figure.

What I claim as my invention, is—

1. The combination, with an image-figure, of the mechanism for automatic smoking, substantially as and for the purposes set forth.

2. The application of the air-bellows A, provided with the tubes B C, and their valves, to an inanimate figure, for simulating the operation of smoking; substantially as shown and described.

3. In combination with the air-bellows A, the reciprocating piston *k*, bar *h*, pitman *g*, and crank *f* of the clock-movement D, arranged and operating in the manner and for the purpose described.

4. As an improved tobacconists' sign, the mechanical or automatic smoking-image herein described.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

JNO. W. BOUGHTON

Witnesses:

J. W. HAWTHURST,

G. M. LAWRENCE.