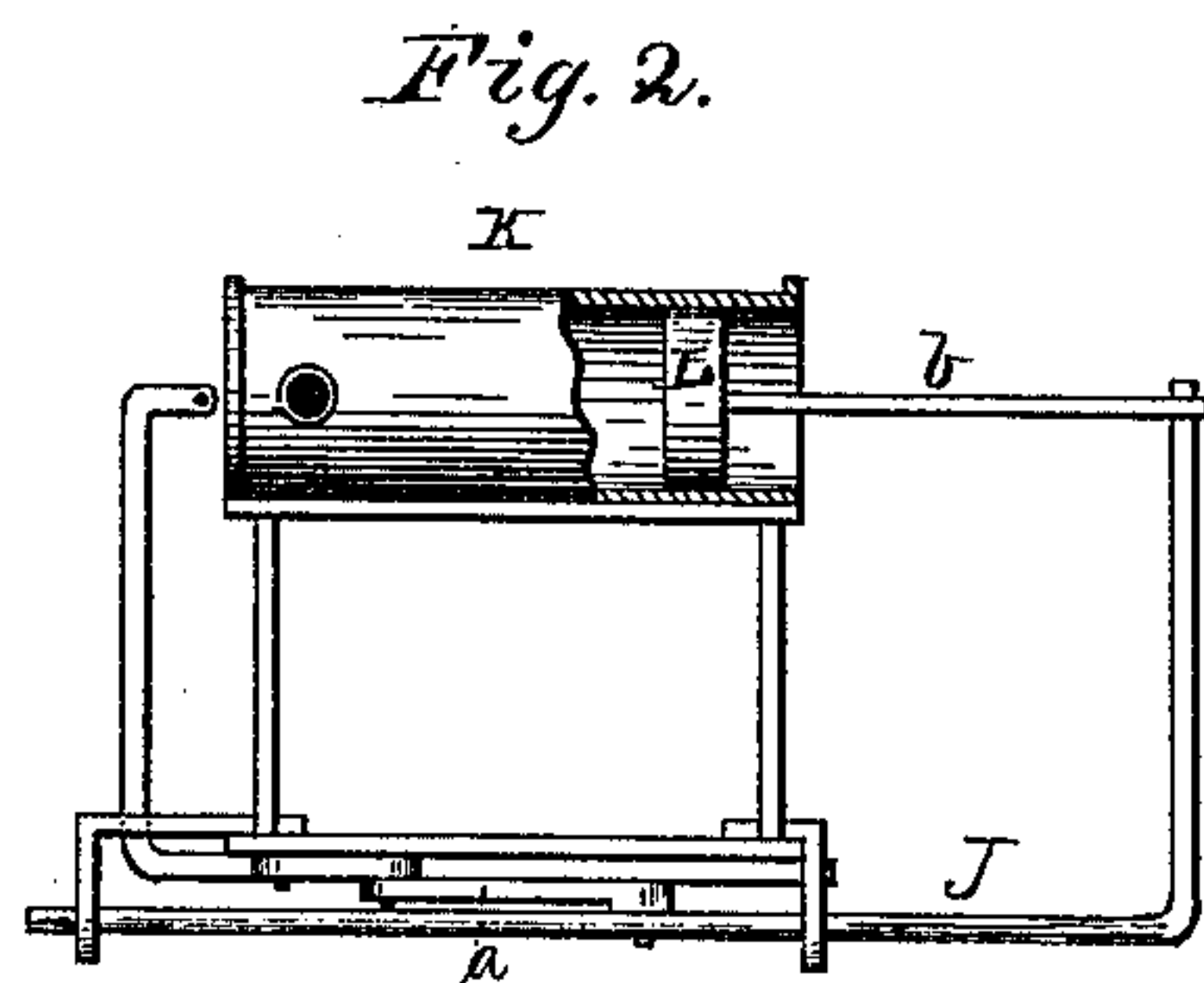
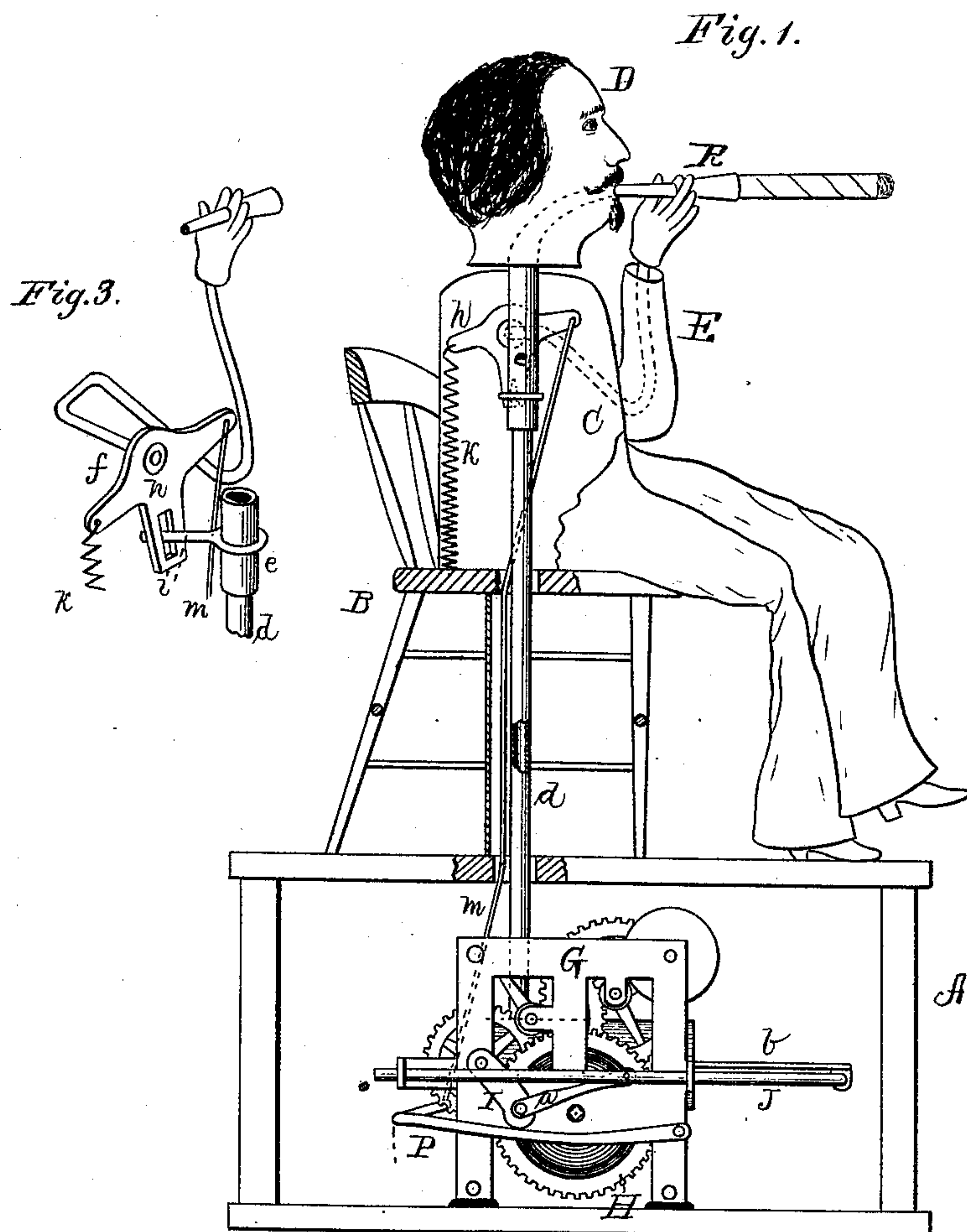


A. H. DEAN.
Automatic Smoking Advertising-Device.
No. 196,639. Patented Oct. 30, 1877.



WITNESSES
Henry N. Miller
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UNITED STATES PATENT OFFICE.

ALBERT H. DEAN, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO IVES,
BLAKESLEE & MOTT, OF SAME PLACE.

IMPROVEMENT IN AUTOMATIC SMOKING ADVERTISING DEVICES.

Specification forming part of Letters Patent No. 196,639, dated October 30, 1877; application filed August 10, 1877.

To all whom it may concern:

Be it known that I, ALBERT H. DEAN, of Bridgeport, in the county of Fairfield, and in the State of Connecticut, have invented certain new and useful Improvements in Automatic Mechanical Smoking Advertising Devices; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of an automatic cigar-smoker having one arm movable to and from the mouth of the figure, and the head loosely connected to the body and movable laterally to one side, all as hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, partly in section, of my automatic smoker. Figs. 2 and 3 are detached views, showing parts of the operating mechanism.

A represents a suitable box forming the base of the machine, and on top thereof is a chair or seat, B, on which a figure is seated. C is the body of said figure, D the head, and E one arm thereof. Within the box A is a stationary frame, G, containing an ordinary clock-work, H. On the last shaft of the train in this clock-work is secured a cam-arm, I, which is, by a rod or pitman, *a*, connected with a bent bar, J, moving in suitable guides on the frame A. To one end of the bar J is attached a piston-rod, *b*, connecting with a piston, L, within a cylinder, K. From the other end of this cylinder extends a tube, *d*, up through the top of the box, the seat, and the body C of the figure. On the upper end of the tube *d* is placed a smaller tube, *e*, which is attached to the head D, and forms the pivot upon which or by which the head is moved to one side. The tube *e* is bent within the head so that its end will be between the lips of the face.

The arm E is pivoted to the body C by a

rod or shaft, *f*, passing into the body, and on the inner end of said rod or shaft is secured a three-armed lever, *h*. The middle arm of this lever extends downward, is slotted longitudinally, and fits over a pin, *i*, projecting from the tube *e*. One of the side arms of the lever *h* is connected by a spiral spring, *k*, with the body C, and from the other side arm a rod or wire, *m*, extends down into the box A, and is connected to an arm, P, pivoted to the frame G in such a position that it can be operated by the rotating cam-arm I.

The arm E of the figure carries in its hand a tubular cigar-holder, R, to hold the cigar or cigarette.

The clock-work H being wound up, the cam-arm I, during its revolution, first moves the bar J so as to draw the piston L to the closed end of the cylinder K. During this movement of the piston the arm E holds the end of the cigar-holder between the lips of the head, either within or close up against the end of the tube *e*, so that by the suction of the piston the smoke will be drawn into the tubes *e* and cylinder K. When the piston has completed its stroke, and about the same time as it commences its return stroke, the cam-arm I strikes the pivoted arm P, turning the same a certain distance on its pivot. This movement of the arm P, by means of the rod or wire *m* and three-armed lever *h*, moves the arm E away from the mouth of the figure, and also, by means of the pin *i* and tube *e*, turns the head D to one side. At the same time the piston L forces the smoke out through the mouth of the figure.

As the cam-arm I continues to rotate, the pivoted arm P moves upward again by the action of the spring *k* on the lever *h*, said lever returning the head and arm of the figure to their former positions, so that when the piston has completed its return stroke and is ready to commence a new stroke, the end of the cigar-holder will be within the mouth of the figure.

In place of the cylinder and piston I may use bellows or similar mechanical means for drawing in and expelling the smoke.

Having thus fully described my invention,

what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, in an automatic smoker, of the figure C, movable head D, with tubular pivot *e*, having projecting pin *i*, the movable arm E, with pivot *f*, the three-armed lever *h*, spring *k*, and a clock mechanism connected with said lever, substantially as and for the purposes herein set forth.

2. The combination, in an automatic smoker, of the figure C, movable head D, with tubular pivot *e*, the tube *d*, cylinder K, and the piston L, connected to and operated by a clock mechanism, substantially as and for the purposes herein set forth.

3. The combination, in an automatic smoker, of a clock-work, H, rotating cam-arm I, piv-

oted arm P, connecting-wire *m*, and three-armed lever *h*, for simultaneously operating the movable head and movable arm of the figure, substantially as herein set forth.

4. The combination, in an automatic smoker, of a clock-work, H, rotating cam-arm I, the pitman *a*, and reciprocating bar J, for operating the piston L, and the pivoted bar P, for operating the movable head and arm of the figure, substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 16th day of July, 1877.

ALBERT H. DEAN.

Witnesses:

WM. E. DISBROW,

F. W. SMITH.