D. F. BROWN.

ADVERTISING AUTOMATON.

APPLICATION FILED DEC. 7, 1908.

928,628.

Patented July 20, 1909.

2 SHEETS—SHEET 1.

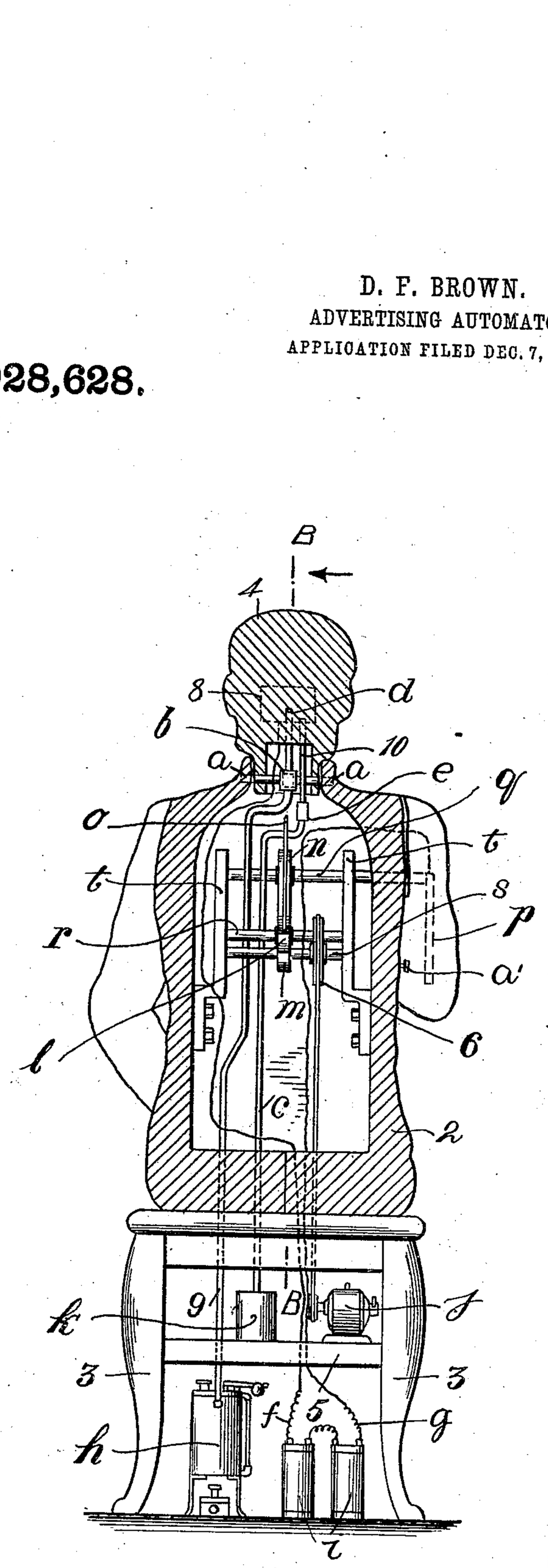

Fig. 1.

Fig. 3.

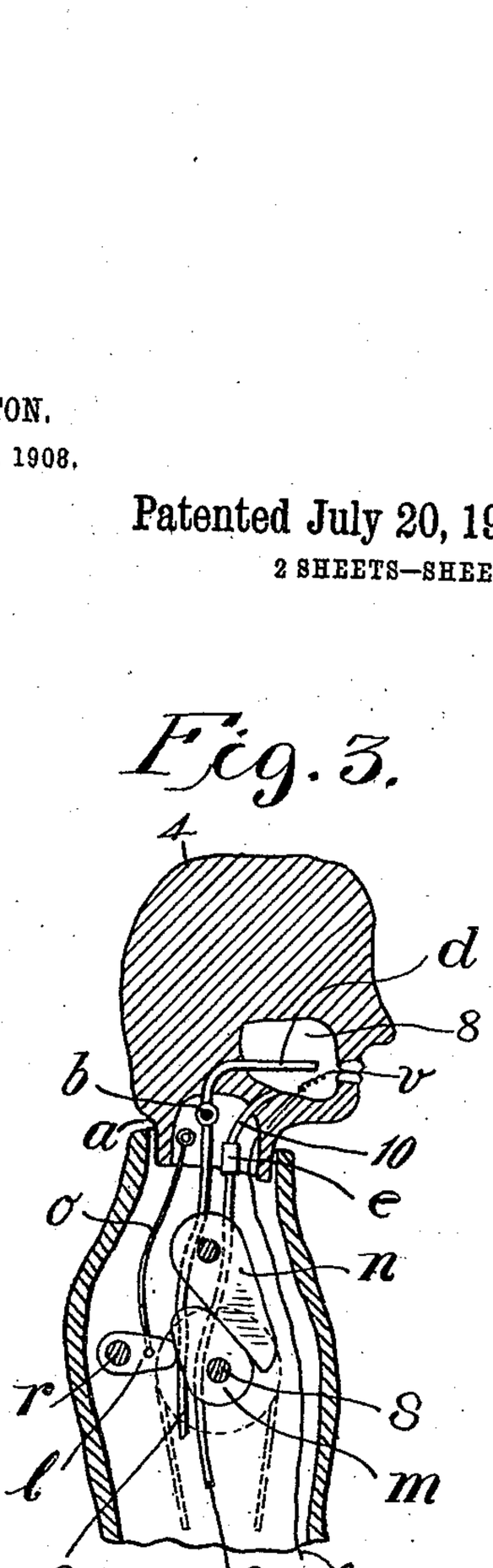

Fig. 4.

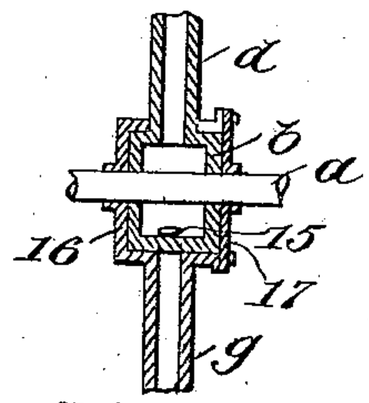

Fig. 5.

Witnesses:
Harry C. Hebig
Albert Hamilton.

Daniel F. Brown Inventor

By his Attorney
James Hamilton

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2 SHEETS—SHEET 2.

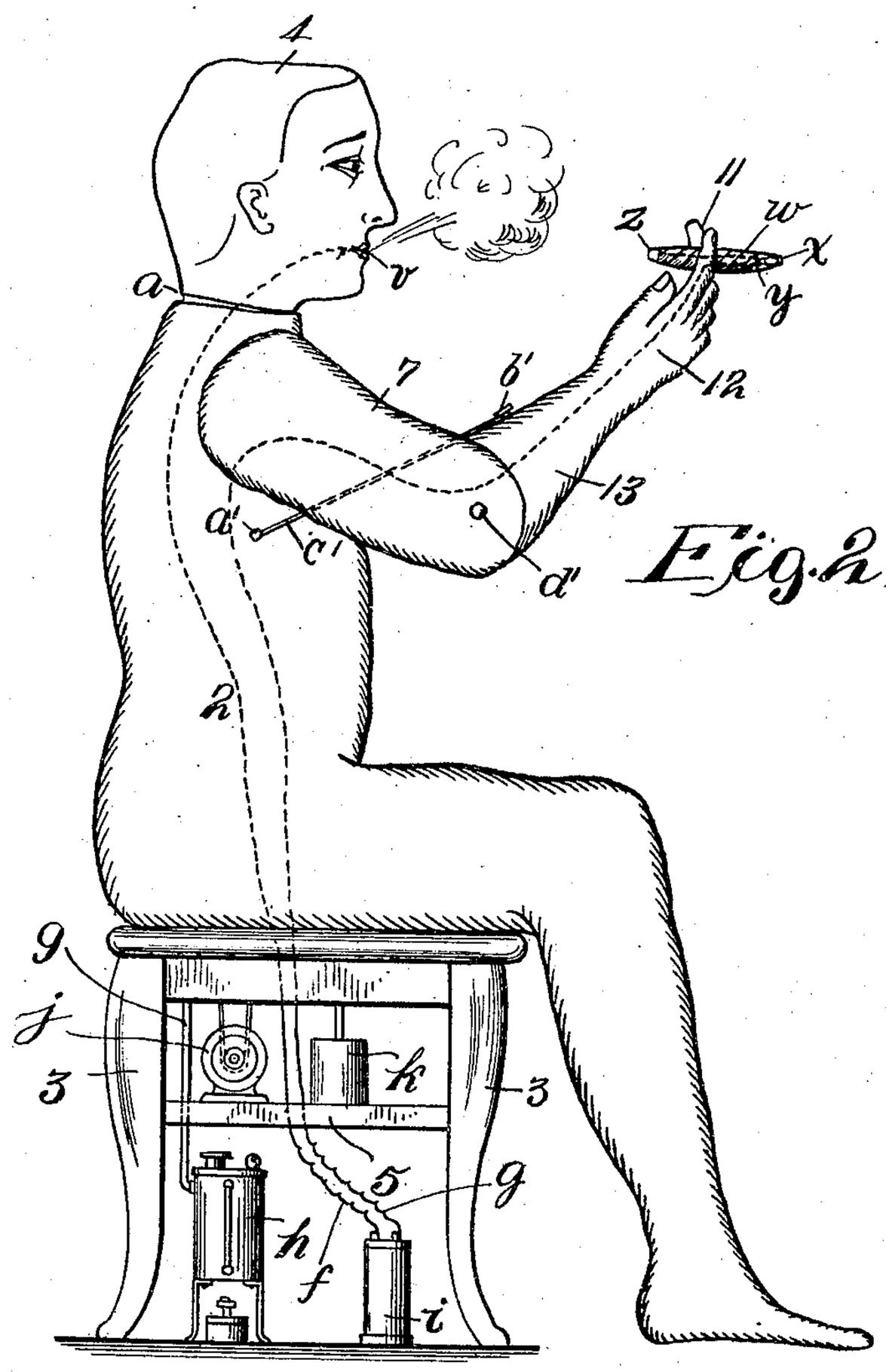

Fig. 2.

Witnesses:
Harry C. Hobig
Albert Hamilton.

Daniel F. Brown Inventor
By his Attorney
James Hamilton

ANDREW. B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

DANIEL F. BROWN, OF SOUTH FRAMINGHAM, MASSACHUSETTS.

ADVERTISING-AUTOMATON.

No. 928,628. Specification of Letters Patent. Patented July 20, 1909.

Original application filed August 2, 1907, Serial No. 386,725. Divided and this application filed December 7, 1908. Serial No. 466,267.

To all whom it may concern:

Be it known that I, DANIEL F. BROWN, a citizen of the United States, residing at South Framingham, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Advertising-Automatons, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in automatons for advertising purposes and particularly to such automatons which are adapted to advertise smokers' supplies; and an object of my invention is to provide an automaton which will prove simple in construction, cheap in manufacture and efficient in operation.

In the drawings illustrating the principle of my invention and the best mode now known to me of applying that principle, Figure 1 is a rear elevation of my new automaton, parts being broken away to disclose the interior mechanism; Fig. 2 is a side elevation of my new automaton; Fig. 3 is a sectional view on the line B—B of Fig. 1; Fig. 4 is a detail showing the valve controlling the emission of steam and Fig. 5 is a section on line A—A of Fig. 4.

The body part 2 of the casing is mounted upon a suitable support, as the stool 3; and upon the upper portion of the body 2 is mounted free to tilt (as shown at *a*, Fig. 1) the head 4. The stool 3 is provided with a shelf 5 upon which is supported an electric motor *j* belt-connected with the pulley 6 upon the shaft *s*, which may be regarded as the driving shaft. The ends of the latter are journaled in the brackets *t* secured to the sides of the body 2 (Fig. 1). The shaft *s* carries a cam *m* which rubs against a cam 1 upon the shaft *r*, the latter being also journaled in the brackets *s*. The cam 1 is connected by a link-rod *o* with the head 4; and as the cam 1 is rocked by the cam *s*, the former communicates through the link-rod *o* a rocking motion to the head 4. The latter carries a pipe *d* which extends from a valve *b* formed integral therewith to the opening 8 which represents the mouth of the automaton; and as the head 4 tilts back and forth upon its pivots *a* under the influence of the cam 1, the valve *b* is turned and is alternately opened and closed to permit and arrest the flow of steam from the boiler *h* through the pipes 9 and *d* to the mouth opening 8. The valve *b* is shown in detail in Fig. 4. The upper end of the steam conduit 9 is enlarged to form a valve-casing 16 closed by a cover-plate 17, as is best shown in Fig. 5. The opening 15 is brought intermittently into register with the pipe 9, whereby steam is permitted to flow from the latter through the opening 15 into the pipe *d* and thence through the mouth. The intermittent flow of steam from the mouth opening 8 simulates the emission of smoke from the mouth of a smoker. A receptacle *k* is mounted upon the shelf 5 and into it drips the water arising from the steam condensed in the mouth opening 8, the water being led through the pipes 10 and *c* which are connected by a flexible joint *e*.

One of the arms, preferably the right arm 7, has embedded in it a crank-arm *p* mounted fast upon one end of the shaft *q* journaled in the brackets *t* and carrying a cam *n* against which rubs the cam *m* upon the driving shaft *s*. Thus, the cam *m* serves to actuate both the cams *l* and *n* and thereby to rock the rock-shafts *r* and *q* and to tilt the head 4 and swing the arm 7. The cams *l*, *m* and *n* are so timed in their action that the movements of the head and arm produced by them and the emission of the steam vapor from the mouth opening 8 are in simulation of the movements of the head and arm of a smoker in puffing at a cigar. One end of a cord *c'* is attached to the arm 7 at *b'* upon the forearm 13 while its other end is attached to the body 2 at *a'*. As the head 4 is allowed by the cam *l* to fall forward and the arm 7 is swung upwardly, the hand 12 is drawn to the mouth opening by the pull of the cord *c'* upon the forearm 13 pivoted to the arm 7 at *d'*.

Below the shelf 5 and adjacent to the boiler *h* there is placed an electric battery *i* the terminals of which are connected one to the wire *f* and the other to the wire *g*. The wire *f* leads to a contact-plate *v* in the mouth opening 8; while the wire *g* leads to one terminal of an incandescent electric lamp *x* the outside of which is made to resemble ashes on the end of the imitation cigar *w* mounted between two of the fingers 11 formed on the hand 12 on the forearm 13. The imitation cigar *w* is provided with a contact-plate *z* formed upon the other terminal (the one to which the wire *g* is not connected) of the lamp *x*. A narrow space *y* separates the

ashes *x* from the outer end of the imitation cigar *w*. The result of the upward movement of the forearm 13, is to bring the plates *v* and *z* into contact with each other and to complete the circuit from the battery *i* through the electric lamp *x*, producing a glowing of the imitation ashes similar to the glowing of the ashes at the end of a cigar upon which a smoker is drawing. The cam *m* is so shaped as to produce a dwell of the hand 12 at the mouth opening 8.

This application is filed as a divisional application under my parent application now matured into Patent No. 908,734.

I claim:

1. In an automaton, the combination of a body provided with a movable head-part formed with an opening; a vapor generator; a vapor conduit which supplies vapor from said generator to said head-part; a valve which is carried by said head-part and which controls the flow of vapor through said conduit; and mechanism for rocking said head-part to open and close said valve and thereby to control the emission of vapor from said opening.

2. In an automaton, the combination of a body provided with a movable head-part formed with an opening; a vapor generator; a vapor conduit which supplies vapor from said generator to said head-part; a valve which is carried by said head-part and which controls the flow of vapor through said conduit; mechanism for rocking said head-part to open and close said valve and thereby to control the emission of vapor from said opening; and means for draining the condensed vapor from said head-part.

3. In an automaton, the combination of a body provided with a movable head-part formed with an opening; a vapor generator; a vapor conduit which supplies vapor from said generator to said head-part; a valve which is carried by said head-part and which controls the flow of vapor through said conduit; mechanism for rocking said head-part to open and close said valve and thereby to control the emission of vapor from said opening; and means mounted in said body and head-part for draining the condensed vapor from said head-part.

4. In an automaton, the combination of a body provided with a swinging arm and a head-part formed with an opening; an electric lamp carried by said arm; means for swinging said arm to carry said lamp to the opening in said head-part; electrically-controlled means for causing said lamp to glow; a vapor generator; a vapor conduit which supplies vapor from said generator to said head-part and means for controlling the flow of vapor through said conduit to the opening in said head-part.

5. In an automaton, the combination of a body provided with a movable arm and with a movable head-part formed with an opening; a vapor generator; a vapor conduit which supplies vapor from said generator to said head-part; a valve which is carried by said head-part and which controls the flow of vapor through said conduit; mechanism for rocking said head-part to open and close said valve and thereby to control the emission of vapor from said opening; a simulated smokable article provided with an electric lamp and carried by said arm; means for swinging said arm to carry said lamp toward said opening; and electrically-controlled means for causing said lamp to glow.

6. In an automaton, the combination of a body provided with a movable arm and a movable head-part with an opening; means for moving said arm and head-part toward and from each other; a vapor generator; means which supply vapor from said generator to said head-part; a valve which is carried by said head-part and which controls the flow of vapor through said means; a simulated smokable article provided with an electric lamp and carried by said arm; and electrically-controlled means for causing said lamp to glow.

7. In an automaton, the combination of a body provided with a movable arm and a movable head-part formed with an opening; a vapor generator; a vapor conduit which supplies vapor from said generator to said head-part; a valve which controls the flow of vapor through said conduit to said head-part; and mechanism for opening and closing said valve and thereby controlling the emission of vapor from said opening.

8. In an automaton, the combination of a body provided with a movable arm and with a head-part formed with an opening; a vapor generator; a vapor conduit which supplies vapor from said generator to said head-part; a valve which controls the flow of vapor through said conduit to said head-part; mechanism for opening and closing said valve; and mechanism for swinging said arm toward said opening.

9. In an automaton, the combination of a body provided with a movable arm and with a head-part formed with an opening; a vapor generator; a vapor conduit which supplies vapor from said generator to said head-part; a valve which controls the flow of vapor through said conduit to said head-part; mechanism for opening and closing said valve; a simulated smokable article provided with an electric lamp and carried by said arm; and mechanism for swinging said arm to carry said lamp toward said opening.

10. In an automaton, the combination of a body provided with a movable arm and with a head-part formed with an opening; a vapor generator; a vapor conduit which supplies vapor from said generator to said head-part; a valve which controls the flow of vapor

through said conduit to said head-part; mechanism for opening and closing said valve; a simulated smokable article provided with illuminating means and carried by said arm; and mechanism for swinging said arm to carry said article toward said opening.

In testimony whereof I have hereunto set my hand at Boston, Massachusetts this twentieth day of October, A. D., 1908, in the presence of the two undersigned witnesses.

DANIEL F. BROWN.

Witnesses:

JOHN F. COAKLEY,

RAYMOND E. KITTREDGE.